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## Accounting Cycle Exercises II

Larry M. Walther; Christopher J. Skousen


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# Larry M. Walther \& Christopher J. Skousen 

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## Problem 1

"Robert Dennis formed a corporation to provide concrete construction work. His jobs typically involve building parking lots, drives, and foundations. Robert provided the following information about transactions occurring during the first month of operation. Evaluate the transactions and prepare journal entries for this activity.

Jan. 2, 20X5 Robert Dennis invested \$20,000 cash in the capital stock of the newly formed corporation.

Jan. 4, 20X5
Purchased equipment on account for $\$ 15,000$.
Jan. 12, 20X5
Received $\$ 30,000$ from customers for services rendered.
Jan. 15, 20X5
Jan. 18, 20X5
Received a bill for construction supplies used in the amount of \$4,000.

Jan. 20, 20X5
Paid employees $\$ 4,600$ for wage earned.

Jan. 22, 20X5 Collected $60 \%$ of the amount due for the work provided on January 18.
Jan. 23, 20X5 Paid $40 \%$ of the amount due on the equipment purchased on January 4.

Jan. 25, 20X5

Jan. 31, 20X5 Purchased (and immediately used) construction supplies for cash in the amount of $\$ 1200$. The company paid Robert Dennis a \$3,000 dividend.

Worksheet 1

| ENERAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| 1-2X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-4-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-12-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-15-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-18-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-20-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-22-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-23-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-25-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| 1-31-X5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Solution 1

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| 1-2X5 | Cash | 20,000 |  |
|  | Capital Stock |  | 20,000 |
|  | Issued stock to Robert Dennis for cash |  |  |
|  |  |  |  |
| 1-4-X5 | Equipment | 15,000 |  |
|  | Accounts Payable |  | 15,000 |
|  | Purchased equipment on account |  |  |
|  |  |  |  |
| 1-12-X5 | Cash | 30,000 |  |
|  | Revenues |  | 30,000 |
|  | Provided services to customers for cash |  |  |
|  |  |  |  |
| 1-15-X5 | Supplies Expense | 4,000 |  |
|  | Accounts Payable |  | 4,000 |
|  | Received bill for cost of supplies |  |  |
|  |  |  |  |
| 1-18-X5 | Accounts Receivable | 6,400 |  |
|  | Revenues |  | 6,400 |
|  | Provided services to customers on account |  |  |
|  |  |  |  |
| $1-20-X 5$ | Wage Expense | 2,300 |  |
|  | Cash |  | 2,300 |
|  | Paid wages of employees |  |  |
|  |  |  |  |
| 1-22-X5 | Cash | 3,840 |  |
|  | Accounts Receivable |  | 3,840 |
|  | Collected $60 \%$ of the amount due from the transaction of Jan. 18 $(\$ 6,400 \times 60 \%=\$ 3,840)$ |  |  |
|  |  |  |  |
| 1-23-X5 | Accounts Payable | 6,000 |  |
|  | Cash |  | 6,000 |
|  | Paid $40 \%$ of the amount due for the transaction of Jan. 4 (\$15,000 X $40 \%=\$ 6,000$ ) |  |  |


| $1-25-X 5$ | Supplies Expense | 1,200 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 1,200 |
|  | Paid for supplies used |  |  |
|  |  |  |  |
| $1-31-X 5$ | Dividends | 3,000 |  |
|  | Cash |  | 3,000 |
|  | Paid dividends to Robert Dennis |  |  |
|  |  |  |  |

## Problem 2

Anthony Moore recently formed an information technology services and consulting firm in England. He was very busy during the first month and has not yet had an opportunity to install his computerized accounting package. But, he did understand the need to keep track of all transactions as they occurred. Following is a manual journal that he maintained for transactions occurring during January. All amounts are in the British Pound.

Anthony has requested that you prepare a ledger of the company's accounts, and post these transactions to determine the balance of each account. He needs this data in order to begin the process of transitioning to his new computerized accounting system.


| 17-Jan-05 | Cash | 450,000 |  |
| :---: | :---: | :---: | :---: |
|  | Accounts Receivable |  | 450,000 |
|  | Collected partial payment on receivables |  |  |
| 18-Jan-05 | Cash | 540,000 |  |
|  | Revenues |  | 540,000 |
|  | Provided services to customers for cash |  |  |
| 20-Jan-05 | Supplies Expense | 60,000 |  |
|  | Accounts Payable |  | 60,000 |
|  | Purchased (on account) and used supplies |  |  |
| 31-Jan-05 | Wage Expense | 300,000 |  |
|  | Cash |  | 300,000 |
|  | Paid employee |  |  |
| 31-Jan-05 | Loan Payable | 600,000 |  |
|  | Interest Expense | 6,000 |  |
|  | Cash |  | 606,000 |
|  | Paid off the loan with interest |  |  |



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Worksheet 2

| CASH |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | - |
| 02-Jan-05 | Journal Page 1 | 3,000,000 | - | 3,000,000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| ACCOUNTS RECEIVABLE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| EQUIPMENT |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| 01-Jan-05 | Balance forward |  | - |  |  |  |
|  |  |  | - |  |  |  |
|  |  |  |  |  |  |  |


| ACCOUNTS PAYABLE |  |  |  |  |
| :---: | :--- | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward |  | - |  |
|  |  |  | - | - |
|  |  |  |  |  |
|  |  |  |  |  |

LOAN PAYABLE

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | :--- | :--- | :--- |
| 01-Jan-05 | Balance forward |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |


| CAPITAL STOCK |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| 01-Jan-05 | Balance forward |  | - |  |  |  |
|  |  |  | - | - |  |  |


| REVENUES | Description | Debit | Credit | Balance |
| :---: | :---: | :---: | :---: | :---: |
| Date |  |  | - |  |
| 01-Jan-05 |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| SUPPLIES EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| WAGE EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| INTEREST EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  |  | - |  |
|  |  |  | - |  |



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Solution 2

| CASH |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | - |
| 02-Jan-05 | Journal Page 1 | $3,000,000$ | - | $3,000,000$ |
| 11-Jan-05 | Journal Page 1 | - | 30,000 | $2,970,000$ |
| 15-Jan-05 | Journal Page 1 | - | 300,000 | $2,670,000$ |
| 17-Jan-05 | Journal Page 2 | 450,000 | - | $3,120,000$ |
| 18-Jan-05 | Journal Page 2 | 540,000 | - | $3,660,000$ |
| 31-Jan-05 | Journal Page 2 | - | 300,000 | $3,360,000$ |
| 31-Jan-05 | Journal Page 2 | - | 606,000 | $2,754,000$ |


| ACCOUNTS RECEIVABLE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 01-Jan-05 | Balance forward | - | - | - |  |
| $06-J a n-05$ | Journal Page 1 | 900,000 | - | 900,000 |  |
| 17-Jan-05 | Journal Page 2 | - | 450,000 | 450,000 |  |


| EQUIPMENT |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | - |
| 04-Jan-05 | Journal Page 1 | 600,000 | - | 600,000 |


| ACCOUNTS PAYABLE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | - |
| $07-J a n-05$ | Journal Page 1 | - | 30,000 | 30,000 |
| 11-Jan-05 | Journal Page 1 | 30,000 | - | - |
| 20-Jan-05 | Journal Page 2 | - | 60,000 | 60,000 |


| LOAN PAYABLE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | - |
| 04-Jan-05 | Journal Page 1 | - | 600,000 | 600,000 |
| 31-Jan-05 | Journal Page 2 | 600,000 | - | - |


| CAPITAL STOCK |  |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| 01-Jan-05 | Balance forward |  | - | - |  |  |
| 02-Jan-05 | Journal Page 1 | - | $-3,000,000$ | $3,000,000$ |  |  |


| REVENUES |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  | - | - | - |
| 06-Jan-05 | Journal Page 1 | - | 900,000 | 900,000 |
| 18-Jan-05 | Journal Page 2 | - | 540,000 | $1,440,000$ |


| SUPPLIES EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  | - | - | - |
| 07-Jan-05 | Journal Page 1 | 30,000 | - | 30,000 |
| 20-Jan-05 | Journal Page 2 | 60,000 | - | 90,000 |


| WAGE EXPENSE |  |  |  |  |  |
| :---: | :--- | :--- | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 01-Jan-05 |  | - | - | - |  |
| 15-Jan-05 | Journal Page 1 | 300,000 | - | 300,000 |  |
| 31-Jan-05 | Journal Page 2 | 300,000 | - | 600,000 |  |


| INTEREST EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 |  | - |  | - |
| 31-Jan-05 | Journal Page 2 | 6,000 |  | - |



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## Problem 3

The CEO of newly formed TrueTarget printed a copy of the company's general ledger prior to a recent plane flight. She settled into seat 5A next to where you were sitting. Once airborne, she removed the printed "GL" from her brief case and began examining the report. Unfortunately, she realized that her printer had run out of ink on the very last page. She is frustrated because she is not able to determine the company's exact profitability to date, and is on her way to a shareholder meeting where she is to issue a report on the company's progress. She happened to note that you were studying an accounting book, and asked if you might help her.

Prepare a trial balance from the general ledger, determine the missing amount for salaries expense, and determine the company's profit for its first month.

| CASH |  |  |  | Description |
| :---: | :--- | ---: | ---: | ---: |
| Date | Debit | Credit | Balance |  |
| 02-Jan-08 | Balance forward | - | - | - |
| 03-Jan-08 | Journal Page 1 | 750,000 | - | 750,000 |
| 10-Jan-08 | Journal Page 1 | - | 225,000 | 525,000 |
| 14-Jan-08 | Journal Page 1 | - | 45,000 | 480,000 |
| 18-Jan-08 | Journal Page 2 | 120,000 | - | 600,000 |
| 21-Jan-08 | Journal Page 2 | - | 12,000 | 588,000 |
| 26-Jan-08 | Journal Page 2 | - | 9,000 | 579,000 |
| 31-Jan-08 | Journal Page 2 | 78,000 | - | 657,000 |


| ACCOUNTS RECEIVABLE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 02-Jan-08 | Balance forward | - | - | - |  |
| 06-Jan-08 | Journal Page 1 | 165,000 | - | 165,000 |  |
| 18-Jan-08 | Journal Page 2 | - | 120,000 | 45,000 |  |


| LAND |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 02-Jan-08 | Balance forward | - |  | - |  |
| 10-Jan-08 | Journal Page 1 | 225,000 |  | - |  |


| SALARIES PAYABLE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 02-Jan-08 | Balance forward | - | - | - |  |
| 31-Jan-08 | Journal Page 2 | - | 54,000 | 54,000 |  |

## CAPITAL STOCK

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| 02-Jan-08 | Balance forward | - | - | - |
| 03-Jan-08 | Journal Page 1 | - | 750,000 | 750,000 |


| REVENUES |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 02-Jan-08 |  | - | - | - |
| 06-Jan-08 | Journal Page 1 | - | 165,000 | 165,000 |
| 31-Jan-08 | Journal Page 2 | - | 78,000 | 243,000 |


| SUPPLIES EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 02-Jan-08 |  | - |  | - |
| 26-Jan-08 | Journal Page 2 | 9,000 |  | - |


| UTILITIES EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 02-Jan-08 |  | - |  | - |
| 21-Jan-08 | Journal Page 2 | 12,000 |  | - |


| SALARIES EXPENSE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| 02-Jan-08 |  | - |  | - |  |
| 14-Jan-08 | Journal Page 1 | 45,000 |  |  |  |
| 31-Jan-08 | Journal Page 2 |  |  |  |  |

Worksheet 3


Solution 3

|  | Debits |  | Credits |  |
| :--- | ---: | ---: | ---: | ---: |
| Cash | $\$$ | 657,000 |  |  |
| Accounts receivable |  | 45,000 |  |  |
| Land |  | 225,000 |  |  |
| Salaries payable |  |  | $\$$ | 54,000 |
| Capital stock |  |  |  | 750,000 |
| Revenues |  |  | 243,000 |  |
| Supplies expense |  | 9,000 |  |  |
| Utilities expense |  | 12,000 |  |  |
| Salaries expense |  | 99,000 |  |  |
|  |  | $\$ 1,047,000$ | $\$ 1,047,000$ |  |

The total salaries expense is $\$ 99,000$ - the amount necessary to bring the trial balance into balance.
TrueTarget was profitable, because revenues $(\$ 243,000)$ exceeded expenses $(\$ 9,000+\$ 12,000+\$ 99,000=$ $\$ 40,000$ ).


## Problem 4

The following narratives describe transactions impacting cash, accounts receivable, accounts payable, revenues, and selected expense accounts. Use T-accounts to analyze this activity and determine the ending balances for accounts receivable and accounts payable. At the beginning of the period, accounts receivable totaled $\$ 108,600$, while accounts payable totaled $\$ 62,550$. The company started the period with $\$ 170,000$ in cash.

| Transaction \#1 | Services were provided to customers for cash in the amount of $\$ 30,460$. <br> Supplies were purchased and used. This purchase occurred on account, in <br> the amount of $\$ 4,800$. |
| :--- | :--- |
| Transaction \#3 | Collections of outstanding receivables occurred in the amount of $\$ 38,820$. |
| Transaction \#4 | Utilities costs in the amount of $\$ 1,526$ were incurred and paid in cash. <br> Transaction \#5 |
| Payments on outstanding accounts payable were made for $\$ 47,800$. |  |
| Transaction \#6 | Services were provided to customers on account in the amount of <br> $\$ 97,308$. |

## Worksheet 4

| CASH |  |
| :--- | ---: |
| $1 / 1 / \mathrm{X} 1$ | 170,000 |
| $\# 1$ | 15,230 |
|  |  |
|  |  |
|  |  |
|  |  |


| REVENUES |  |  |
| :--- | :--- | :--- |
|  | 15,230 | $\# 1$ |
|  |  |  |
|  |  |  |
|  |  |  |


| ACCOUNTS RECEIVABLE |  |  |
| :--- | ---: | ---: |
| $1 / 1 / \mathrm{X1}$ | 108,600 |  |
|  |  |  |
|  |  |  |
|  |  |  |

SUPPLIES EXPENSE


UTILITIES EXPENSE

The T-accounts reveal that ending Accounts Receivable amount to \$ $\qquad$ , and ending Accounts Payable amount to \$

Solution 4


| REVENUES |  |  |
| :--- | ---: | :--- |
|  | 30,460 | $\# 1$ |
|  | 97,308 | $\# 6$ |


SUPPLIES EXPENSE

| 1/1/X1 | 108,600 <br> \#6 | 37,308 |  |
| :--- | ---: | ---: | ---: |
|  |  | \#3 |  |
|  | 205,908 | 38,820 |  |
|  |  | 167,088 |  |
|  |  |  |  |
|  |  |  |  |


| ACCOUNTS PAYABLE |  |  |
| ---: | ---: | ---: |
| \#5 | 47,800 | 62,550 |
|  |  | $1 / 1 /$ X1 |
|  |  | 4,800 |
|  |  | \#2 |
|  | 47,800 | 67,350 |
|  |  |  |
|  |  | 19,550 |
|  |  |  |


| UTILITIES EXPENSE |  |  |
| :--- | :--- | :---: |
| \#4 | 1,526 |  |
|  |  |  |
|  |  |  |
|  |  |  |

The T-accounts reveal that ending Accounts Receivable amount to $\$ 167,088$, and ending Accounts Payable amount to $\$ 19,550$.

## Problem 5

Monte Ishiola distributes electronic parts. Most transactions with customers are immediately paid with cash or check. But, Monte has five major customers that have established accounts. These approved customers routinely buy on credit. The terms of the credit agreement provide that payment must occur within 30 days, and each customer has a maximum credit limit of $\$ 30,000$.

Following is information for May regarding each of the credit customers:

| Customer \#1 | Beginning balance, $\$ 4,209$. Purchases on account on May 5, $\$ 21,711$. Payment on account on May 17, \$4,209. |
| :---: | :---: |
| Customer \#2 | Beginning balance, $\$ 15,825$. Purchase on account on May $15, \$ 6,825$. Payment on account on May 26, \$12,825. |
| Customer \#3 | Beginning balance, \$0. Purchase on account on May 9, \$28,650. |
| Customer \#4 | Beginning balance, $\$ 22,671$. Purchase on account on May $7, \$ 6,300$. Purchase on account on May 22, $\$ 28,332$. Payment on account on May 11, \$22,671. |
| Customer \#5 | Beginning balance, \$8,970. Payment on account on May 18, \$8,970. |

a) Prepare a subsidiary accounts receivable ledger account for each of Narayan's customers.
b) Prepare the general ledger Accounts Receivable "control" account. Be sure the total in this account reconciles to the sum of the individual balances in the subsidiary ledgers.

c) What is the purpose of a subsidiary ledger? What other control accounts might be supported by subsidiary ledgers?
d) Review Monte's subsidiary ledgers and identify which customer should be put on credit watch for being delinquent, and which customer has exceeded their credit limit.

Worksheet 5
a) Below are the subsidiary ledgers for each customer (some data is provided):

| ACCOUNTS RECEIVABLE | Customer \#1 |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| May 1 | Balance forward | 4,209 | - | 4,209 |
| May 5 | Purchase - Journal page X | 21,711 | - | 25,920 |
| May 17 | Payment - Journal page X | - | 4,209 | 21,711 |


| ACCOUNTS RECEIVABLE | Customer \#2 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| May 1 | Balance forward | 15,825 |  | - |
| May 15 |  |  |  | 15,825 |
| May 26 |  |  |  |  |


| ACCOUNTS RECEIVABLE | Customer \#3 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
|  |  |  |  |  |
|  |  |  |  |  |


| ACCOUNTS RECEIVABLE | Debit | Credit | Balance |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| ACCOUNTS RECEIVABLE | Customer \#5 |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
|  |  |  |  |  |
|  |  |  |  |  |

b) Below is the general ledger account

| ACCOUNTS RECEIVABLE |  |  |  |  |  | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
| Date | Desch | - | - | 51,675 |  |  |  |  |  |
| 01-Jan-05 | Balance forward | 21,711 |  | - |  |  |  |  |  |
| May 5 | Purchase - Journal page X |  |  |  |  |  |  |  |  |
| May 7 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
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The Accounts Receivable general ledger account balance of $\qquad$ is in agreement with the sum of the individual subsidiary accounts (\$21,711+
c)
d) Customer \# is delinquent.
Customer \# 's balance exceeds the $\$ 30,000$ credit limit.


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Solution 5
a)

| ACCOUNTS RECEIVABLE | Customer \#1 |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| May 1 | Balance forward | 4,209 | - | 4,209 |
| May 5 | Purchase - Journal page X | 21,711 | - | 25,920 |
| May 17 | Payment - Journal page X | - | 4,209 | 21,711 |


| ACCOUNTS RECEIVABLE |  |  |  |  |  |  | Customer \#2 |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |  |  |
| May 1 | Balance forward | 15,825 |  | - |  |  |  |  |
| May 15 | Purchase - Journal page X | 6,825 | -825 |  |  |  |  |  |
| May 26 | Payment - Journal page X | - | 12,825 | 22,650 |  |  |  |  |


| ACCOUNTS RECEIVABLE | Customer \#3 |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| May 1 | Balance forward | - |  | - |
| May 9 | Purchase - Journal page X | 28,650 | - | 28,650 |


| ACCOUNTS RECEIVABLE |  |  |  |  |  |  | Customer \#4 |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |  |  |
| May 1 | Balance forward | 22,671 | - | 22,671 |  |  |  |  |
| May 7 | Purchase - Journal page X | 6,300 | - | 28,971 |  |  |  |  |
| May 11 | Payment - Journal page X | - | 22,671 | 6,300 |  |  |  |  |
| May 22 | Purchase - Journal page X | 28,332 | - | 34,632 |  |  |  |  |


| ACCOUNTS RECEIVABLE | Customer \#5 |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| May 1 | Balance forward | 8,970 | - | 8,970 |
| May 18 | Payment - Journal page X | - | 8,970 | - |

b)

| ACCOUNTS RECEIVABLE | Customer \#2 |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| 01-Jan-05 | Balance forward | - | - | 51,675 |
| May 5 | Purchase - Journal page X | 21,711 | - | 73,386 |
| May 7 | Purchase - Journal page X | 6,300 | - | 79,686 |
| May 9 | Purchase - Journal page X | 28,650 | - | 108,336 |
| May 11 | Payment - Journal page X | - | 22,671 | 92,490 |
| May 15 | Purchase - Journal page X | 6,825 | - | 115,161 |
| May 17 | Payment - Journal page X | - | 4,209 | 88,281 |
| May 18 | Payment - Journal page X | - | 8,970 | 79,311 |
| May 22 | Purchase - Journal page X | 28,332 | - | 107,643 |
| May 26 | Payment - Journal page X | - | 12,825 | 94,818 |

The Accounts Receivable general ledger account balance of $\$ 94,818$ is in agreement with the sum of the individual subsidiary accounts ( $\$ 21,711+\$ 9,825+\$ 28,650+\$ 34,632=\$ 94,818$ ). This is an important reconciliation that should occur on a regular basis. Modern computer systems, including data base driven processes, have greatly reduced the frustration of maintaining subsidiary accounts that synchronize with control accounts.
c) Subsidiary ledgers provide detailed information about the transactions with specific customers, vendors, and so forth. They enable one to know exactly what comprises a general ledger account balance. This information is very useful for many purposes, including preparing monthly billing statements for specific customers. Subsidiary ledgers might also be maintained for accounts payable, cash (if multiple bank accounts are in use), property assets (to track individual items of equipment in use by the business), capital stock (to track ownership of individual shareholders), and the like.
d) Customer $\# 2$ is delinquent. This customer owed $\$ 15,825$ at the beginning of May, but only paid $\$ 12,825$ during the month. A portion of the beginning balance has been outstanding for more than the agreed 30 -day period. Customer \#4's balance exceeds the $\$ 30,000$ credit limit.

## Problem 6

June 2 Sudipta Gumm invested \$50,000 cash in the capital stock of the newly formed corporation.

June 3 Hired an administrative assistant, to be paid \$6,000 per month. Leased office space at the rate of $\$ 2,000$ per month. Signed a contract with Bangalore to deliver consulting services valued at $\$ 15,000$.

June $8 \quad$ Purchased (and immediately used) office supplies on account for $\$ 1,500$.
June 9 Received \$5,000 from Bangalore for work performed to date.
June 15 Paid \$2,400 for travel costs associated with consultation work.
June 16 Provided services on account to Amalga for \$6,000.
June 17 Paid \$3,000 to administrative assistant for salary.
June 23 Billed Wheel for \$8,000 consulting engagement performed.
June 25 The company paid Sudipta Gumm a \$2,000 dividend.
June 26 Collected 50\% of the amount due for the billing on June 23.
June 27 Purchased computer furniture for \$8,000, paying \$2,000 down.
June 27 Paid $\$ 1,500$ on the open account relating to the June 8 purchase.
June 28 Completed the Bangalore job and billed the remaining amount.
June 30 Paid \$3,000 to administrative assistant for salary.
June $30 \quad$ Paid rent for June, $\$ 2,000$.

Pryor consulting uses the following accounts:

## Cash

Accounts Receivable
Equipment
Accounts Payable
Capital Stock
Revenues
Salary Expense
Rent Expense
Travel Expense
Supplies Expense
Dividends
a) Journalize the listed transactions.
b) Post the transactions to the appropriate general ledger accounts.
c) Prepare a trial balance as of June 30.

Worksheet 6 (a)

| GENERAL JOURNAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| June 2 | Cash |  |  |
|  | Capital Stock |  |  |
|  | Sudipta Gumm invested \$50,000 cash in the capital stock of the newly formed corporation. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Purchased (and immediately used) office supplies on account for \$1,500. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Received \$5,000 from Bangalore for work performed to date. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Paid $\$ 2,400$ for travel costs associated with consultation work. |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Provided services on account to Amalga for $\$ 6,000$. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Paid \$3,000 to administrative assistant for salary. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Billed Wheel for \$8,000 consulting engagement performed. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | The company paid Sudipta Gumm \$2,000 dividend. |  |  |
|  |  |  |  |


|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
|  | Collected 50\% of the amount due for the billing on June 23. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Purchased computer furniture for $\$ 8,000$, paying $\$ 2,000$ down. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Paid $\$ 1,500$ on the open account relating to the June 8 purchase. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Completed the Bangalore job and billed the remaining amount. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Paid \$3,000 to administrative assistant for salary. |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | Paid rent for June, \$2,000. |  |  |

Worksheet 6 (b)

| CASH | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| Date | - | - | - |  |
| June 1 | Balance forward | - |  | - |
|  | Journal Page 1 | 50,000 |  | 50,000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

ACCOUNTS RECEIVABLE

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | :--- | :--- | :--- |
| June 1 | Balance forward |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |



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| EQUIPMENT |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| June 1 | Balance forward |  | - |  |  |  |
|  |  |  | - | - |  |  |


| ACCOUNTS PAYABLE |  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| June 1 | Balance forward |  | - |  |  |  |
|  |  |  | - |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

## CAPITAL STOCK

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| June 1 | Balance forward | - | - | - |
|  | Journal Page 1 | - | 50,000 | 50,000 |


| DIVIDENDS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| June 1 |  |  | - |  |
|  |  |  | - | - |


| REVENUES | Description | Debit | Credit | Balance |
| :---: | :---: | :---: | :---: | :---: |
| Date |  |  | - |  |
| June 1 |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| SALARY EXPENSE |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| June 1 |  |  | - |  |  |  |
|  |  |  | - |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |


| RENT EXPENSE |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |  |
| June 1 |  |  | - |  |  |  |  |
|  |  |  | - | - |  |  |  |


| TRAVEL EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| June 1 |  |  | - |  |
|  |  |  | - | - |

## SUPPLIES EXPENSE

| Date | Description | Debit | Credit | Balance |
| :---: | :---: | :---: | :---: | :---: |
| June 1 |  |  | - |  |
|  |  |  |  | - |

Worksheet 6 (c)

| STUDIPTA GUMM CONSULTING <br> Trial Balance <br> June 30, 20xx |
| :---: |
| ${ } \\ {\hline \text { Debits }} \\ { } \\ {\hline}$ |

Solution 6 (a)

| GENERAL JOURNAL |  |  |  |  |  |
| :---: | :--- | ---: | ---: | :---: | :---: |
| Date | Accounts | Debit | Credit |  |  |
| June 2 | Cash | 50,000 |  |  |  |
|  | Capital Stock |  | 50,000 |  |  |
|  | Sudipta Gumm invested $\$ 50,000$ <br> cash in the capital stock of the <br> newly formed corporation. |  |  |  |  |
|  |  |  | 1,500 |  |  |
| June 8 | Supplies Expense |  | 1,500 |  |  |
|  | Accounts Payable |  |  |  |  |
|  | Purchased (and immediately used) <br> office supplies on account for <br> $\$ 1,500$. |  | 5,000 |  |  |
| June 9 | Cash |  |  |  |  |
|  | Revenues |  |  |  |  |
|  | Received $\$ 5,000$ from Bangalore <br> for work performed to date. |  |  |  |  |

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Sources: Keuzegids Master ranking 2013; Elsevier 'Beste Studies' ranking 2012; Financial Times Global Masters in Management ranking 2012

Master's Open Day: 22 February 2014

| June 15 | Travel Expense | 2,400 |  |
| :---: | :---: | :---: | :---: |
|  | Cash |  | 2,400 |
|  | Paid $\$ 2,400$ for travel costs associated with consultation work. |  |  |
| June 16 | Accounts Receivable | 6,000 |  |
|  | Revenues |  | 6,000 |
|  | Provided services on account to Amalga for $\$ 6,000$. |  |  |
| June 17 | Salary Expense | 3,000 |  |
|  | Cash |  | 3,000 |
|  | Paid \$3,000 to administrative assistant for salary. |  |  |
| June 23 | Accounts Receivable | 8,000 |  |
|  | Revenues |  | 8,000 |
|  | Billed Wheel for \$8,000 consulting engagement performed. |  |  |
| June 25 | Dividends | 2,000 |  |
|  | Cash |  | 2,000 |
|  | The company paid Sudipta Gumm \$2,000 dividend. |  |  |
| June 26 | Cash | 4,000 |  |
|  | Accounts Receivable |  | 4,000 |
|  | Collected $50 \%$ of the amount due for the billing on June 23. |  |  |
| June 27 | Equipment | 8,000 |  |
|  | Cash |  | 2,000 |
|  | Accounts Payable |  | 6,000 |
|  | Purchased computer furniture for $\$ 8,000$, paying $\$ 2,000$ down. |  |  |
| June 27 | Accounts Receivable | 1,500 |  |
|  | Cash |  | 1,500 |
|  | Paid $\$ 1,500$ on the open account relating to the June 8 purchase. |  |  |
| June 28 | Accounts Receivable | 10,000 |  |
|  | Revenues |  | 10,000 |
|  | Completed the Bangalore job and billed the remaining amount. |  |  |


| June 30 | Salary Expense | 1,500 |  |
| :--- | :--- | ---: | ---: |
|  | Cash |  | 1,500 |
|  | Paid $\$ 3,000$ to administrative <br> assistant for salary. |  |  |
|  |  |  |  |
| June 30 | Rent Expense | 1,000 |  |
|  | Cash |  | 1,000 |
|  | Paid rent for June, $\$ 2,000$. |  |  |

Solution 6 (b)

| CASH |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| June 1 | Balance forward | - | - | - |  |
| June 2 | Journal Page 1 | 50,000 | - | 50,000 |  |
| June 9 | Journal Page 1 | 5,000 | - | 55,000 |  |
| June 15 | Journal Page 1 | - | 2,400 | 52,600 |  |
| June 17 | Journal Page 1 | - | 3,000 | 49,600 |  |
| June 25 | Journal Page 2 | - | 2,000 | 47,600 |  |
| June 26 | Journal Page 2 | 4,000 | - | 51,600 |  |
| June 27 | Journal Page 2 | - | 2,000 | 49,600 |  |
| June 27 | Journal Page 2 | - | 1,500 | 48,100 |  |
| June 30 | Journal Page 3 | - | 3,000 | 45,100 |  |
| June 30 | Journal Page 3 | - | 2,000 | 43,100 |  |


| ACCOUNTS RECEIVABLE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| June 1 | Balance forward | - | - | - |
| June 16 | Journal Page 1 | 6,000 | - | 6,000 |
| June 23 | Journal Page 2 | 8,000 | - | 14,000 |
| June 26 | Journal Page 2 | - | 4,000 | 10,000 |
| June 28 | Journal Page 2 | 10,000 | - | 20,000 |


| EQUIPMENT |  |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| June 1 | Balance forward | - |  | - |  |  |
| June 27 | Journal Page 2 | 8,000 | - |  |  |  |

## ACCOUNTS PAYABLE

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| June 1 | Balance forward | - | - | - |
| June 8 | Journal Page 1 | - | 1,500 | 1,500 |
| June 27 | Journal Page 2 | - | 6,000 | 7,500 |
| June 27 | Journal Page 2 | 1,500 | - | 6,000 |

CAPITAL STOCK

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| June 1 | Balance forward | - | - | - |
| June 2 | Journal Page 1 | - | 50,000 | 50,000 |


| DIVIDENDS |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| June 1 |  | - |  | - |
| June 25 | Journal Page 2 | 2,000 | - |  |


| REVENUES |  |  |  |  |  | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
| Date |  | - | - | - |  |  |  |  |  |
| June 1 |  | - | 5,000 | 5,000 |  |  |  |  |  |
| June 9 | Journal Page 1 | - | 6,000 | 11,000 |  |  |  |  |  |
| June 16 | Journal Page 1 | - | 8,000 | 19,000 |  |  |  |  |  |
| June 23 | Journal Page 2 | - | 10,000 | 29,000 |  |  |  |  |  |
| June 28 | Journal Page 2 | - |  |  |  |  |  |  |  |



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SALARY EXPENSE

| Date | Description | Debit | Credit | Balance |
| :---: | :---: | ---: | ---: | ---: |
| June 1 |  | - | - | - |
| June 17 | Journal Page 1 | 3,000 | - | 3,000 |
| June 30 | Journal Page 3 | 3,000 | - | 6,000 |


| RENT EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| June 1 |  | - |  | - |
| June 30 | Journal Page 3 | 2,000 |  | - |

TRAVEL EXPENSE

| Date | Description | Debit | Credit | Balance |
| :---: | ---: | ---: | ---: | ---: |
| June 1 |  | - |  | - |
| June 15 | Journal Page 1 | 2,400 | - | 2,400 |

## SUPPLIES EXPENSE

| Date | Description | Debit | Credit | Balance |
| :---: | :---: | ---: | ---: | ---: |
| June 1 |  | - |  | - |
| June 8 | Journal Page 1 | 1,500 |  | - |

Solution 6 (c)

| STUDIPTA GUMM CONSULTING <br> Trial Balance <br> June 30, 20XX |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Debits |  | Credits |  |
| Cash | \$ | 43,100 | \$ |  |
| Accounts Receivable |  | 20,000 |  |  |
| Equipment |  | 8,000 |  |  |
| Accounts Payable |  | - |  | 6,000 |
| Capital Stock |  | - |  | 50,000 |
| Revenues |  | - |  | 29,000 |
| Salary Expense |  | 6,000 |  |  |
| Rent Expense |  | 2,000 |  | - |
| Travel Expense |  | 2,400 |  |  |
| Supplies Expense |  | 1,500 |  | - |
| Dividends |  | 2,000 |  | - |
|  | \$ | 85,000 | \$ | 85,000 |

## Problem 7

Hagen Corporation opened the year 20X6, with the following trial balance information:

| Cash | Debits |  | Credits |  |
| :---: | :---: | :---: | :---: | :---: |
|  | \$ | 100,000 | \$ | 0 |
| Accounts Receivable |  | 300,000 |  | 0 |
| Land |  | 600,000 |  | 0 |
| Accounts Payable |  | - | \$ | 240,000 |
| Loan Payable |  | - |  | 120,000 |
| Capital Stock |  | - |  | 200,000 |
| Retained Earnings |  | - |  | 440,000 |
| Dividends |  | - |  | - |
| Revenues |  | - |  | - |
| Salaries Expense |  | - |  | - |
| Rent Expense |  | - |  | - |
| Supplies Expense |  | - |  | - |
| Interest Expense |  | - |  | - |
|  | \$ | ,000,000 | \$ | 1,000,000 |

## January's transactions are listed below:

Jan. 2 Collected $\$ 40,000$ on an open account receivable.
Jan. 3 Purchased additional tract of land for \$80,000 cash.
Jan. 5 Provided services on account to a customer for \$60,000.
Jan. 7 Borrowed \$48,000 on a term loan payable.
Jan. 11 Paid salaries of $\$ 12,000$.
Jan. 12 Provided services to customers for cash, \$44,000.
Jan. 15 Purchased (and used) office supplies on account, \$8,000.
Jan. 17 The company paid shareholders a $\$ 10,000$ dividend.
Jan. 20 Paid rent of $\$ 6,800$.
Jan. 23 Paid salaries of $\$ 16,000$.
Jan. 24 Paid \$64,000 on the open accounts payable.
Jan. 29 Collected $\$ 200,000$ on accounts receivable.
Jan. 31 Repaid loans of \$88,000.
Jan. 31 Paid interest on loans of $\$ 2,400$.
a) Create the general ledger accounts, and enter the initial balances at the start of the month of January. This requirement is already completed on the worksheets.
b) Prepare journal entries for January's transactions.
c) Post January's transactions to the appropriate general ledger accounts.
d) Prepare a trial balance as of January 31.
e) Prepare an income statement and statement of retained earnings for January, and a balance sheet as of the end of January.

Worksheet 7 (a)

| CASH | Description | Debit | Credit | Balance |
| :---: | :---: | :---: | :---: | :---: |
| Date | Ban. 1 | Balance forward |  | - |
|  |  |  |  | 100,000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| ACCOUNTS RECEIVABLE |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward |  | - |  |
|  |  |  |  | 300,000 |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |


| LAND |  |  |  |  |
| :---: | :--- | :--- | :--- | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward |  | - |  |
|  |  |  | - | 600,000 |


| ACCOUNTS PAYABLE |  |  |  |  |
| :---: | :--- | :--- | :--- | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward |  | - |  |
|  |  |  | - | 240,000 |
|  |  |  |  |  |
|  |  |  |  |  |


| LOAN PAYABLE |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :---: |
| Date | Description | Debit | Credit | Balance |  |
| Jan. 1 | Balance forward |  | - |  |  |
|  |  |  | - | 120,000 |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


| CAPITAL STOCK |  |  |  |  |  |  |
| :---: | :--- | :--- | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| Jan. 1 | Balance forward |  | - |  |  |  |


| RETAINED EARNINGS |  |  |  |  |
| :---: | :--- | :--- | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward |  | - |  |


| DIVIDENDS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  |  | - |  |
|  |  |  | - |  |


| REVENUES | Description | Debit | Credit | Balance |
| :---: | :---: | :---: | :---: | :---: |
| Date |  |  | - |  |
| Jan. 1 |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| SALARIES EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |
|  |  |  |  |  |


| SUPPLIES EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |


| RENT EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  |  | - |  |
|  |  |  | - | - |


| INTEREST EXPENSE |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  |  | - |  |
|  |  |  | - |  |
|  |  |  |  |  |

Worksheet (b)

| NERAL |  |  |  |
| :---: | :---: | :---: | :---: |
| Date | Accounts | Debit | Credit |
| Jan. 2 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 3 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 5 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 7 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 11 |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 12 |  |  |  |
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|  |  |  |  |
|  |  |  |  |
| Jan. 15 |  |  |  |
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|  |  |  |  |
| Jan. 17 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 20 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 23 |  |  |  |
|  |  |  |  |
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| Jan. 24 |  |  |  |
| :---: | :--- | :--- | :--- |
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|  |  |  |  |
| Jan. 29 |  |  |  |
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|  |  |  |  |
| Jan. 31 |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Jan. 31 |  |  |  |
|  |  |  |  |
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Worksheet 7 (d)

| HAGEN CORPORATION <br> Trial Balance January 31, $20 \times 6$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Debits |  | Credits |  |
| Cash | \$ | - | \$ |  |
| Accounts Receivable |  |  |  |  |
| Land |  |  |  |  |
| Accounts Payable |  |  |  |  |
| Loan Payable |  |  |  |  |
| Capital Stock |  |  |  |  |
| Retained Earnings |  |  |  |  |
| Revenues |  |  |  | 104,000 |
| Salaries Expense |  | 28,000 |  |  |
| Supplies Expense |  | 8,000 |  |  |
| Rent Expense |  | 6,800 |  |  |
| Interest Expense |  | 2,400 |  |  |
| Dividends |  | 10,000 |  | - |
|  | \$ | 55,200 | \$ | 104,000 |

Worksheet 7 (e)


| HAGEN CORPORATION <br> Statement of Retained Earnings <br> For the Month Ending January 31, 20X6 |  |
| :--- | :--- |
| Beginning retained earnings <br> Plus: Net income <br> Less: Dividends <br> Ending retained earnings |  |

## HAGEN CORPORATION

Balance Sheet
January 31, 20X6

## Assets

Cash
Accounts receivable
Land
Total assets

## Liabilities

Accounts payable
Loan payable
Total liabilities
Stockholders' equity
Capital stock
Retained earnings
Total stockholders' equity
Total liabilities and equity

Solution 7 (a)

| CASH |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward | - | - | 100,000 |
| Jan. 2 | Journal Page 1 | 40,000 | - | 140,000 |
| Jan. 3 | Journal Page 1 | - | 80,000 | 60,000 |
| Jan. 7 | Journal Page 1 | 48,000 | - | 108,000 |
| Jan. 11 | Journal Page 1 | - | 12,000 | 96,000 |
| Jan. 12 | Journal Page 1 | 44,000 | - | 140,000 |
| Jan. 17 | Journal Page 2 | - | 10,000 | 130,000 |
| Jan. 20 | Journal Page 2 | - | 6,800 | 123,200 |
| Jan. 23 | Journal Page 2 | - | 16,000 | 107,200 |
| Jan. 24 | Journal Page 2 | - | 64,000 | 43,200 |
| Jan. 29 | Journal Page 2 | 200,000 |  | - |
| Jan. 31 | Journal Page 3 | - | 88,000 | 155,200 |
| Jan. 31 | Journal Page 3 | - | 2,400 | 152,800 |


| ACCOUNTS RECEIVABLE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| Jan. 1 | Balance forward | - | - | 300,000 |  |
| Jan. 2 | Journal Page 1 | - | 40,000 | 260,000 |  |
| Jan. 5 | Journal Page 1 | 60,000 | - | 320,000 |  |
| Jan. 29 | Journal Page 2 | - | 200,000 | 120,000 |  |


| LAND |  |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| Jan. 1 | Balance forward | - |  | - |  |  |
| Jan. 3 | Journal Page 1 | 80,000 |  | - |  |  |


| ACCOUNTS PAYABLE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward | - | - | 240,000 |
| Jan. 15 | Journal Page 2 | - | 8,000 | 248,000 |
| Jan. 24 | Journal Page 2 | 64,000 | - | 184,000 |


| LOAN PAYABLE |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| Jan. 1 | Balance forward | - | - | 120,000 |  |
| Jan. 7 | Journal Page 1 | - | 48,000 | 168,000 |  |
| Jan. 31 | Journal Page 3 | 88,000 | - | 80,000 |  |

CAPITAL STOCK

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | :--- | :--- | ---: |
| Jan. 1 | Balance forward |  | - |  |


| RETAINED EARNINGS |  |  |  |  |
| :---: | :--- | :--- | ---: | :---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 | Balance forward |  | - |  |


| DIVIDENDS |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
| Jan. 1 |  | - |  | - |  |
| Jan. 17 | Journal Page 2 | 10,000 | - |  |  |


| REVENUES | Description | Debit | Credit | Balance |
| :---: | :---: | ---: | ---: | ---: |
| Date |  | - | - | - |
| Jan. 1 |  | - | - | 60,000 |
| Jan. 5 | Journal Page 1 | - | 60,000 |  |
| Jan. 12 | Journal Page 1 | - | 44,000 | 104,000 |

SALARIES EXPENSE

| Date | Description | Debit | Credit | Balance |
| :---: | :--- | ---: | ---: | ---: |
| Jan. 1 |  | - | - | - |
| Jan. 11 | Journal Page 1 | 12,000 | - | 12,000 |
| Jan. 23 | Journal Page 2 | 16,000 | - | 28,000 |


| SUPPLIES EXPENSE |  |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| Jan. 1 |  | - |  | - |  |  |
| Jan. 15 | Journal Page 2 | 8,000 | - |  |  |  |


| RENT EXPENSE |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
| Jan. 1 |  | - |  | - |
| Jan. 20 | Journal Page 2 | 6,800 | - |  |


| INTEREST EXPENSE |  |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: | :---: |
| Date | Description | Debit | Credit | Balance |  |  |
| Jan. 1 |  | - | - | - |  |  |
| Jan. 31 | Journal Page 3 | 2,400 | - | 2,400 |  |  |

Solution 7 (b)

## GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Jan. 2 | Cash V | 40,000 |  |
|  | Accounts Receivable $\checkmark$ |  | 40,000 |
|  | Collected \$40,000 on an open account receivable. |  |  |
|  |  |  |  |
| Jan. 3 | Land $V$ | 80,000 |  |
|  | Cash $\checkmark$ |  | 80,000 |
|  | Purchased additional tract of land for \$80,000 cash. |  |  |
|  |  |  |  |
| Jan. 5 | Accounts Receivable $\quad \checkmark$ | 60,000 |  |
|  | Revenues $\checkmark$ |  | 60,000 |
|  | Provided services on account to a customer for \$60,000. |  |  |
|  |  |  |  |
| Jan. 7 | Cash V | 48,000 |  |
|  | Loan Payable $\checkmark$ |  | 48,000 |
|  | Borrowed \$48,000 on a term Ioan payable. |  |  |

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Solution 7 (d)

| HAGEN CORPORATION <br> Trial Balance January 31, 20X6 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Debits |  | Credits |  |
| Cash | \$ | 152,800 | \$ | - |
| Accounts Receivable |  | 120,000 |  |  |
| Land |  | 680,000 |  | - |
| Accounts Payable |  | - |  | 184,000 |
| Loan Payable |  |  |  | 80,000 |
| Capital Stock |  | - |  | 200,000 |
| Retained Earnings |  |  |  | 440,000 |
| Revenues |  | - |  | 104,000 |
| Salaries Expense |  | 28,000 |  | - |
| Supplies Expense |  | 8,000 |  | - |
| Rent Expense |  | 6,800 |  | - |
| Interest Expense |  | 2,400 |  | - |
| Dividends |  | 10,000 |  | - |
|  | \$ | ,008,000 | \$ | 008,000 |



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Solution 7 (e)

| HAGEN CORPORATION <br> Income Statement <br> For the Month Ending January 31, 20X6 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Revenues |  |  |  |  |
| Services to customers |  |  | \$ | 104,000 |
| Expenses |  |  |  |  |
| Salaries | \$ | 28,000 |  |  |
| Supplies |  | 8,000 |  |  |
| Rent |  | 6,800 |  |  |
| Interest |  | 2,400 |  | 45,200 |
| Net income |  |  | \$ | 58,800 |


| HAGEN CORPORATION <br> Statement of Retained Earnings <br> For the Month Ending January 31, 20X6 |  |
| :--- | ---: |
| Beginning retained earnings | $\$ 440,000$ |
| Plus: Net income | 38,800 <br>  <br> Less: Dividends <br> Ending retained earnings <br> 498,800 <br> 10,000 |

## HAGEN CORPORATION

Balance Sheet
January 31, 20X6

| Assets | $\$ 152,800$ |  |  |
| :--- | ---: | :---: | :---: |
| Cash | 120,000 |  |  |
| Accounts receivable | 680,000 |  |  |
| Land | $\$ 952,800$ |  |  |
| Total assets |  |  | $\underline{\$ 9}$ |


| Liabilities |  |  |
| :--- | ---: | :--- |
| Accounts payable | $\$ 184,000$ |  |
| Loan payable | 80,000 |  |
| Total liabilities |  | $\$ 264,000$ |
| Stockholders' equity | $\$ 200,000$ |  |
| Capital stock | 488,800 |  |
| Retained earnings |  | 688,800 <br> Total stockholders' equity <br> Total liabilities and equity |

## Problem 8

Mont Blanc Corporation is a small business operating in a state where a tax on income is contrary to the state's constitution. In an effort to raise revenue, the state has imposed a tax on business receipts for services provided to customers (total revenues, whether collected during the period or not). The tax is equal to $1 \%$ of revenues in excess of $\$ 300,000$.

Mont Blanc prepared its state tax return by adding up the total deposits to the company's bank account during the year. Total deposits were $\$ 1,240,000$, and the company paid taxes of $\$ 9,400((\$ 1,240,000-$ $\$ 300,000) \mathrm{X} 1 \%)$.

Assume you are an auditor for the state, and Mont Blanc has been randomly selected for a routine review. You immediately find that the company does not maintain a typical journal/ledger system, and is fundamentally clueless about proper accounting procedures.

You have discovered the following limited information as part of your examination:

Fact 1 Total deposits included \$450,000 that resulted from issuing shares to stockholders.

Fact 2 The total deposits included \$75,000 of interest income on investments.
Fact 3 The total deposits included \$2,700 that was the result of a bank error. The bank subsequently discovered the error, and removed the funds from Moncrief's account.

Fact 4 Mont Blanc provides some services for cash, and portions of that money are never deposited to a bank. The company maintains a cash receipts book and you have determined that \$74,100 was collected from customers but never deposited.
Fact 5 Bank deposits during the period included a $\$ 3,600$ refund check from a vendor relating to an overpayment for supplies.
Fact 6 The company deposits included \$42,000 that was the result of a refund of an overpayment of federal income taxes.
Fact 7 During the year, Mont Blanc collected a customer deposit toward a future contract. This \$30,000 advance was deposited and subsequently refunded when both parties mutually agreed to cancel the contract.
Fact 8 Mont Blanc has many customers for which services are provided on account. As of the beginning of the year, the balance due from customers was $\$ 390,000$. By the end of the year, accounts receivable had grown to $\$ 1,170,000$. Mont Blanc has never experienced a problem with non-payment, and all customers pay their accounts in full within 90 days of a transaction.
a) Prepare an analysis to determine the correct amount of revenue for purposes of computing the tax.
b) Prepare journal entries for the "revenue" cycle, as well as the other cash items described.
c) Prepare a general ledger account supporting the revenue calculation.

Worksheet 8 (a)
a)

```
Gross receipts as reported
Fact 1: Remove stockholder investments
$ 3,720,000
    (450,000)
Fact 2:
Fact 3:
Fact 4:
Fact 5:
Fact 6:
Fact 7:
Fact 8:
Fact 8:
Corrected gross receipts
```


# "I studied English for 16 years but... ...I finally learned to speak it in just six lessons" Jane, Chinese architect 



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b)

GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :---: | :---: | :---: |
| Fact 1 | Cash | 450,000 |  |
|  | Capital Stock |  | 450,000 |
|  | Record stockholder investment |  |  |
|  |  |  |  |
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Worksheet 8 (c)

| REVENUES |  |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: | :---: |
| Date | Description | Debit | Credit | Balance |  |
|  | Balance forward | - | - | - |  |
|  |  | - | - | - |  |
|  |  | - | - | - |  |
|  |  | - | - | - |  |



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## Solution 8 (a)

a) The following schedule reveals the corrected revenue calculations. Mont Blanc owes an additional $\$ 2,508$ in gross receipts tax $((\$ 3,970,800-\$ 3,720,000)$ X $1 \%)$.

| Gross receipts as reported | $\$ 3,720,000$ |
| :--- | ---: | ---: |
| Fact 1: Remove stockholder investments | $(450,000)$ |
| Fact 2: Remove interest income | $(75,000)$ |
| Fact 3: Remove deposit error | $(2,700)$ |
| Fact 4: Add cash revenues never deposited | 74,100 |
| Fact 5: Remove refund included in revenues | $(3,600)$ |
| Fact 6: Remove tax refund deposit | $(42,000)$ |
| Fact 7: Remove customer deposit refunded | $(30,000)$ |
| Fact 8: Subtract collections of beginning receivables | $(390,000)$ |
| Fact 8: Add services provided on account not yet collected | $1,170,000$ |
| Corrected gross receipts | $\$ 3,970,800$ |

b)

## GENERAL JOURNAL

| Date | Accounts | Debit | Credit |
| :---: | :--- | ---: | ---: |
| Fact 1 | Cash | 450,000 |  |
|  | Capital Stock |  | 450,000 |
|  | Record stockholder investment |  |  |
|  |  |  |  |
| Fact 2 | Cash | 75,000 |  |
|  | Interest Revenue |  | 75,000 |
|  | Record interest earnings |  |  |
| Fact 3 | No entry |  |  |
|  | Bank error only |  |  |
|  |  |  |  |


| Fact 4 | Cash | 74,100 |  |
| :---: | :---: | :---: | :---: |
|  | Revenues |  | 74,100 |
|  | Record service provided for cash |  |  |
|  |  |  |  |
| Fact 5 | Cash | 36,000 |  |
|  | Supplies Expense |  | 36,000 |
|  | Reduce supplies for refund |  |  |
|  |  |  |  |
| Fact 6 | Cash | 42,000 |  |
|  | Tax Expense |  | 42,000 |
|  | Reduce taxes for refund |  |  |
|  |  |  |  |
| Fact 7 | No net adjustment needed |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Fact 8 | Cash | 390,000 |  |
|  | Accounts Receivable |  | 390,000 |
|  | Record collection of receivables |  |  |
|  |  |  |  |
| Fact 8 | Accounts Receivable | 1,170,000 |  |
|  | Revenues |  | 1,170,000 |
|  | Services provided on account |  |  |
|  |  |  |  |
| Balance | Cash | 2,726,700 |  |
|  | Revenues |  | 2,726,700 |
|  | $\begin{aligned} & \text { All other revenues }(\$ 3,970,800 \\ & -\$ 74,100-\$ 1,170,000= \\ & \$ 2,726,700) \end{aligned}$ |  |  |

Solution 8 (c)

| REVENUES |  |  |  |  |
| :---: | :--- | ---: | ---: | ---: |
| Date | Description | Debit | Credit | Balance |
|  | Balance forward | - | - | - |
|  | Fact 4 | - | 74,100 | 74,100 |
|  | Fact 8 | - | $1,170,000$ | $1,244,100$ |
|  | Balance | - | $2,726,700$ | $3,970,800$ |

