COSC 1336 — Fundamentals of Programming I Exam 2 Project

Name	

Write a program that will manage the bank statement of AllyBaba.. Make sure that we follow all the programming styles (20% of the grade) that we have learned in class:

- proper variable names
- use of functions
- readability
- comments/documentation

Project Description

Write a program to help you balance your checkbook at the end of the month. The program should have **the user enter the initial balance** followed by **a series of transactions**. For each transaction, first have the user enter a transaction type. The valid transaction types are:

- W withdraw funds
- D deposit funds
- E Exit

For checks and deposits, the user should be prompted to enter the transaction amount.

Service Charges

- There is a \$0.25 service charge for each check written. Keep a running total of the service charges.
- Service charges are not deducted from the account balance until the end of the month.
- If the withdraw amount exceeds the balance, there will be \$20.00 service charge, plus the check will not clear the bank.

Output

After each transaction, display

- the command data (to confirm the transaction)
- the resulting account balances
- the total service charges accrued so far

At the end of the month, deduct the service charges and print the final balance.

Input validation

- If the transaction type is invalid, print an informative error message. Ignore the current transaction and have the user enter the next transaction.
- The transaction amount should be a positive number (larger than zero). If it is not, print an informative error message. Ignore the current transaction and have the user enter the next transaction.

Other requirements

• Do not use global variables in any assignment. A global variable is a variable that is declared outside any function.

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AMPLE RUN (User entry is in RED) ser's Entry llyBaba Bank Monthly Statement nter the beginning balance: 900 elect Transaction Type: 7 - Process a check - Process a deposit
IllyBaba Bank Monthly Statement Inter the beginning balance: 900 Elect Transaction Type: 7 - Process a check
nter the beginning balance: 900 elect Transaction Type: 7 - Process a check
elect Transaction Type: 7 - Process a check
7 - Process a check
- Exit
nter transaction type: W nter Check amount: 50.00 rocessing Check for \$50.00
cocessed Check for \$50.00 current Balance: \$850.00 crvice charge: \$.25 for writing a check ccrued service charges: \$.25
elect Transaction Type: 7 - Process a check - Process a deposit — Exit
nter transaction type: W nter Check amount: 1250 rocessing Check for \$1250.00
annot Process Check for \$1250.00 sufficient Balance urrent Balance: \$850.00 ervice charge: \$20.00 for insufficient balance ccrued service charges: \$20.25

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Name	
	D - Process a deposit E - Exit
	Enter transaction type: D Enter transaction amount: 200 Processing Deposit of \$200.00
	Processed Deposit of \$200.00 Current Balance: \$1050.00 Accrued service charges: \$20.25
	Select Transaction Type: W - Process a check D - Process a deposit E - Exit
	Enter transaction type: E Processing end of month
	End of Month Summary
	Current Balance \$1050.00 Accrued service charges: \$20.25 End of month balance: \$1029.75