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//SDEV 120

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// SDEV 120 Final Project

//

//This program is called “Automated Teller”

//Variable Trans stands for transaction number, Log stands for Login attempt

Main Module

Declare Deposit ,, Selection, Trans, Log, Amt as integer

Declare Count as integer

Declare Usr [4] as integer

Declare Pwd [4] as string

Declare Acct [4, 2] as float

Declare Checking , Savings as float

Declare User, Pass as string

Declare Transfer as float

Call Initialize

Call Database

Call Login Module

Call Main Menu

Call Process/Output Module

End Main Program

//

Initialize

Set Checking = 0.0

Set Savings = 0.0

Set Count = 0

Set User = “a”

Set Pass = “a”

Set Trans = 0

Set Log = 0

Set Deposit = 0

Set Transfer = 0.0

Set Selection = 0

End Initialize

//In DATABASE, I need to build the arrays that I will pull customer data from for the login //screen. These arrays are offset to make reading them easier for me.

Database

Set Usr[0] = rbrown

Set Usr[1] = lwhite

Set Usr[2] = mblack

Set Usr[3] = rhowe

Set Pwd[0] = blue123

Set Pwd[1] = red456

Set Pwd[2] = green789

Set Pwd[3] = C04747277

Set Acct[0, 0] = 2500.00

Set Acct[0, 1] = 35.00

Set Acct[1, 0] = 500.00

Set Acct[1, 1] = 1250.00

Set Acct[2, 0] = 750.00

Set Acct[2, 1] = 200.00

Set Acct[3, 0] = 600.00

Set Acct[3, 1] = 900.00

//

Login Module

Declare Index as integer

Declare Found as integer

While Log < 3

Write “Thank you for banking with us. Please enter your username.”

Input User

Set Log = Log + 1

Set Index = 0

Set Found = 0

While (Found == 0) AND (Index < 4)

If Usr[Index] == User Then

Set Found = 1

End If

End While

If Found == 0 Then

Write “Invalid User Name.”

Else

Write “” + UserName + “, please enter your password.”

End If

Input Password

Set Log = Log + 1

Set Index = 0

Set Found = 0

While (Found == 0) AND (Index < 4)

If Pwd[Index] == Pass Then

Set Found = 1

End If

End While

If Found == 0 Then

Write “Invalid Password”

Else

Write “Login Successful!”

End If

End While

If Log >= 3 Then

End Main Program

End If

If Index = 0 Then

Set Savings = 2500.00

Set Checking = 35.00

If Index = 1 Then

Set Savings = 500.00

Set Checking = 1250.00

If Index = 2 Then

Set Savings = 750.00

Set Checking = 200.00

If Index = 3 Then

Set Savings = 600.00

Set Checking = 900.00

End If

End If

End If

End If

End Login Module

//

Main Menu

Write “Please choose an option from the list below.”

Write “Logout \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* 9”

Write “Deposit \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* 1”

Write “Withdrawal \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* 2”

Write “Balance Transfer \* \* \* \* \* \* \* \* \* \* \* \* 3”

Write “Check Account Balance \* \* \* \* \* \* \* \* \* 4”

//

Input Selection

Select Case of Selection

Case 9

Write “Thank you for banking with us. Goodbye.”

End Main Program

Break

//

Case 1

If Trans < 3 Then

While Trans < 3

Write “Deposit”

Set Selection = 0

Write “To which account?”

Write “Checking. . . . . . . . 1”

Write “Savings . . . . . . .. . .2”

Write “Logout . . . . . . . . . . 9”

Input Selection

If Selection = 1 Then

Set Selection = 0

Write “How much would you like to deposit?”

Input Amt

Write “Insert your bills.”

Set Checking = Checking + Amt

Set Trans = Trans + 1

End If

//

If Selection = 2 Then

Set Selection = 0

Write “How much would you like to deposit?”

Input Amt

Write “Insert your bills.”

Set Savings = Savings + Amt

Set Trans = Trans + 1

End If

If Selection = 9 Then

Write “Thank you for banking with us. Goodbye.”

End Main Program

End If

Else

End Main Program

End If

End While

Set Selection = 0

Write “Would you like another transaction?”

Write “Yes \*\*\*\*\*\*\* 1”

Write “No \*\*\*\*\*\*\*\* 2”

If Selection = 1 Then

Call Main Menu

Else

End Main Program

//

Break

//

Case 2

If Trans < 3 Then

While Trans < 3

Write “Withdrawal”

Set Selection = 0

Write “From which account?”

Write “Checking. . . . . . . . 1”

Write “Savings . . . . . . .. . .2”

Write “Logout . . . . . . . . . . 9”

Input Selection

If Selection = 1 Then

Write “Please enter the amount to be withdrawn from checking.”

Write “You cannot withdraw more than $500 at once.”

Input Amt

If Amt < Checking and Amt <= 500 Then

Set Checking = Checking – Amt

Write “Please take your bills.”

Set Trans = Trans + 1

Else

Write “Amount exceeds available balance or transaction limit. Check your” Write “ balance.”

End If

If Selection = 2 Then

Write “Please enter the amount to be withdrawn from Savings.”

Write “You cannot withdraw more than $500 at once.”

Input Amt

If Amt < Savings and Amt <= 500 Then

Set Savings= Savings– Amt

Write “Please take your bills.”

Set Trans = Trans + 1

Else

Write “Amount exceeds available balance or transaction limit. Check your” Write “ account balance.”

End If

End If

If Selection = 9 Then

Write “Thank you for banking with us. Goodbye.”

End Main Program

End If

Else

End Main Program

End If

End While

Set Selection = 0

Write “Would you like another transaction?”

Write “Yes \*\*\*\*\*\*\* 1”

Write “No \*\*\*\*\*\*\*\* 2”

If Selection = 1 Then

Call Main Menu

Else

End Main Program

//

Break

//

Case 3

If Trans < 3 Then

While Trans < 3

Write “Balance Transfer”

Set Selection = 0

Write “From which account?”

Write “Checking. . . . . . . . 1”

Write “Savings . . . . . . .. . .2”

Write “Logout . . . . . . . . . . 9”

If Selection = 1 Then

Write “How much to transfer to Savings?”

Input Transfer

If Transfer <= Checking Then

Set Savings = Savings + Transfer

Set Trans = Trans +1

Write “Transfer complete. Checking = “ + Checking + “”

Write “Savings = “ + Savings + “”

Else

Write “Insufficient Funds.”  
 Set Trans = Trans + 1

End If

If Selection = 2 Then

Write “How much to transfer to Checking?”

Input Transfer

If Transfer <= Savings Then

Set Checking = Checking + Transfer

Set Trans = Trans +1

Write “Transfer complete. Checking = “ + Checking + “”

Write “Savings = “ + Savings + “”

Else

Write “Insufficient Funds.”  
 Set Trans = Trans + 1

End If

If Selection = 9 Then

Write “Thank you for banking with us. Goodbye.”

End Main Program

End If

End If

Else

End Main Program

End If

End While

Set Selection = 0

Write “Would you like another transaction?”

Write “Yes \*\*\*\*\*\*\* 1”

Write “No \*\*\*\*\*\*\*\* 2”

If Selection = 1 Then

Call Main Menu

Else

End Main Program

//

Break

//

Case 4

If Trans < 3 Then

While Trans < 3

Write “Check Account Balance”

Set Selection = 0

Write “For which account?”

Write “Checking. . . . . . . . 1”

Write “Savings . . . . . . .. . .2”

Write “Logout . . . . . . . . . . 9”

If Selection = 1 Then

Write “Your checking balance is “ + Checking + “.”

Set Trans = Trans + 1

End If

If Selection = 2 Then

Write “Your savings balance is “ + Savings + “.”

Set Trans = Trans + 1

End If

If Selection = 9 Then

Write “Thank you for banking with us. Goodbye.”

End Main Program

Else

End Main Program

End While

Set Selection = 0

Write “Would you like another transaction?”

Write “Yes \*\*\*\*\*\*\* 1”

Write “No \*\*\*\*\*\*\*\* 2”

If Selection = 1 Then

Call Main Menu

Else

End Main Program

//

Break

//

End Case

End Main Menu