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Class: ISMN-6656

Assignment: HW4b

# P3.37  
  
# initialize variables  
option = 1  
  
# get checking and savings balances  
checkBalance = float(input("Please enter the initial checking account balance: $"))  
savBalance = float(input("Please enter the initial savings account balance: $"))  
  
# loops until the above two values are not negative  
while(checkBalance < 0 or savBalance < 0):  
 print("\nPlease enter non-negative values!")  
   
 # get checking and savings balances  
 checkBalance = float(input("Please enter the initial checking account balance: $"))  
 savBalance = float(input("Please enter the initial savings account balance: $"))  
  
# loops while option is not = to any value other than 1 - 3  
while(option != 0 and 0 < option <= 3):   
 # print menu and checking/savings balances  
 print("\n############################# MENU #############################")  
 print("Checking Amount: $" + str(round(checkBalance, 2)) + "\nSavings Amount: $" + str(round(savBalance, 2)))  
 print("1 = deposit, 2 = withdrawal, 3 = transfer, 0 = quit")  
 option = int(input("Please enter your transaction option: "))  
   
 # validate that option is a value between 1 - 3  
 if(option != 0 and 0 < option <= 3):  
 choice = int(input("Please enter 1 for checking or 2 for savings: "))  
   
 # deposit implementation  
 if(option == 1):  
 # validate that choice is either 1 or 2  
 if(choice == 1 or choice == 2):  
 deposit = float(input("Please enter the amount to deposit: $"))  
   
 # catches negative or 0 value for deposit amount  
 while(deposit <= 0):  
 deposit = float(input("No negative amounts! Please enter the amount to deposit: $"))  
   
 # deposit in checking  
 if(choice == 1):  
 checkBalance += deposit  
 print("$" + str(round(deposit, 2)) + " was successfully deposited in your checking account!")  
 # deposit in savings  
 elif(choice == 2):  
 savBalance += deposit  
 print("$" + str(round(deposit, 2)) + " was successfully deposited in your savings account!")  
 # choice is not 1 or 2  
 else:  
 print("Please enter 1 or 2!")  
   
 # withdrawal implementation  
 elif(option == 2):  
 # validate that choice is either 1 or 2  
 if(choice == 1 or choice == 2):  
 withdrawal = float(input("Please enter the amount to withdraw: $"))  
   
 # catches negative or 0 value for withdrawal amount  
 while(withdrawal <= 0):  
 withdrawal = float(input("No negative amounts! Please enter the amount to withdraw: $"))  
   
 # verify that withdrawal amt is not greater than amount in desired account  
 if((choice == 1 and withdrawal > checkBalance) or (choice == 2 and withdrawal > savBalance)):  
 print("Insufficient funds!")  
 # withdraw from checking  
 elif(choice == 1):  
 checkBalance -= withdrawal  
 print("$" + str(round(withdrawal, 2)) + " was successfully withdrawn from your checking account!")  
 # withdraw from savings  
 elif(choice == 2):  
 savBalance -= withdrawal  
 print("$" + str(round(withdrawal, 2)) + " was successfully withdrawn from your savings account!")  
 # choice is not 1 or 2  
 else:  
 print("Please enter 1 or 2!")  
   
 # transfer implementation  
 elif(option == 3):  
 # validate that choice is either 1 or 2  
 if(choice == 1 or choice == 2):  
 transfer = float(input("Please enter the amount to transfer: $"))  
   
 # catches negative or 0 value for transfer amount  
 while(transfer <= 0):  
 transfer = float(input("No negative amounts! Please enter the amount to transfer: $"))  
   
 # verify that transfer amt is not greater than amount in desired account  
 if((choice == 1 and transfer > checkBalance) or (choice == 2 and transfer > savBalance)):  
 print("Insufficient funds!")  
 # transfer from checking to savings  
 elif(choice == 1):  
 checkBalance -= transfer  
 savBalance += transfer  
 print("$" + str(round(transfer, 2)) + " was transferred from checking to savings!")   
 # transfer from savings to checking  
 elif(choice == 2):  
 savBalance -= transfer  
 checkBalance += transfer  
 print("$" + str(round(transfer, 2)) + " was transferred from savings to checking!")  
 # choice is not 1 or 2  
 else:  
 print("Please enter 1 or 2!")  
   
 # 0 or other number was entered   
 else:  
 print("\n\nTerminating application...")











