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# Project:      Homework3 (ChengLanQingHomework03Sec03.py)
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# Date:         10/29/15
# Description:  This program will allow the user to  compute a
#               checking account balance. And display the total deposit,
#               total withdrawal, total service charge, and the times
#               that they do the transaction

def main():

    #Input a zero value
    fltWithdraw = 0.0
    fltService = 0.0
    fltBalance = 0.0
    fltDeposit = 0.0

    fltTotalWithdraw = 0.0
    fltTotalService = 0.0
    fltTotalDeposit = 0.0
    fltTotalBalance = 0.0

    intTimeOfDeposit = 0
    intTimeOfWithdraw = 0
    intTimeOfService = 0

    #To start the loop
    strTransaction ="start"


    #Start the while loop until user type "end"
    while strTransaction !="end":

        #Capture user input of transaction
        strTransaction = str(input("Enter the type of
transaction(deposit,withdrawal,service charge,end):"))

        #Calculate the deposit part
        if strTransaction == "deposit":
            fltDeposit = float(input("Enter the amount of the deposit:"))

            #Make sure the number is valid
            if fltDeposit < 0:
                print("Please enter a valid number")

            else:
                fltTotalDeposit += fltDeposit
                fltTotalBalance += fltDeposit
                intTimeOfDeposit +=1

                print("Your account balance is :$",
round(fltTotalBalance,2))
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        #Calculate the withdrawal part
        elif strTransaction =="withdrawal":
            fltWithdraw =float(input("Enter the amount of the
withdrawal:"))

            #Make sure the number is valid
            if fltWithdraw < 0:
                print("Please enter a valid number")

            elif (fltTotalBalance - fltWithdraw) >= 0:

                    fltTotalWithdraw += fltWithdraw
                    fltTotalBalance = fltTotalBalance - fltWithdraw
                    intTimeOfWithdraw +=1
                    print("Your account balance is :$",
round(fltTotalBalance,2))

            else:
                print("Here is not enough money to cover a Withdrawal")




        #Calculate the Service Charge part
        elif strTransaction =="service charge":
            fltService = float(input("Enter the amount of the service
charge:"))

            #Make sure the number is valid
            if fltService < 0:
                print("Please enter a valid number")

            else:
                fltTotalService += fltService
                fltTotalBalance = fltTotalBalance - fltService
                intTimeOfService += 1
                print("Your account balance is :$",
round(fltTotalBalance,2))


    #Stop the loop
    strTransaction =="end"


    #Print the summary
    print()
    print("Here is your account information")
    print()

    print("Your account balance is: $",round(fltTotalBalance,2))
    print()
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    print("The total amount of Deposit is: $",round(fltTotalDeposit,2))
    print("The number of deposits:",intTimeOfDeposit)

    print("The total amount of withdrawal is: $",
round(fltTotalWithdraw,2))
    print("The number of the withdrawal:",intTimeOfWithdraw)

    print("The total amount of Service Charge is:
$",round(fltTotalService,2))
    print("The number of Service Charges:",intTimeOfService)



main()
```