customertransaction = []

customerNames = []

customerPins = []

customerBalances = []

deposition = 0

withdrawal = 0

balance = 0

counter\_1 = 1

counter\_2 = 0

i = 0

# This statement below allows the program to run continuously.

while True:

import datetime

date = datetime.datetime.now()

print(" ----Welcome to PyBank GIIS---- ")

print("--------------------------------------")

print("=<< 1. Open a new account >>=")

print("=<< 2. Withdraw Money >>=")

print("=<< 3. Deposit Money >>=")

print("=<< 4. Check Customers & Balance & transactions >>=")

print("=<< 5. close account >>=")

print("=<< 6. exit/quit app >>=")

print("=<< 7. send money to another account >>=")

print("--------------------------------------")

# below statement takes the choice input from user.

choiceNumber = input("Select your choice number from the above menu : ")

if choiceNumber == "1":

print("Choice number 1 is selected by the customer")

#line below will take the no: of customers from user.

NOC = eval(input("Number of Customers : "))

i = i + NOC

# if condition will restrict the number of new account to 5.

if i > 5:

print("\n")

print("Customer registration exceed reached or Customer registration too low")

i = i - NOC

else:

# The while loop will run to the no: of customers.

while counter\_1 <= i:

# These few lines will take information from customer and then append them to list.

name = input("Input Fullname : ")

customerNames.append(name)

pin = str(input("Please input a pin of your choice : "))

customerPins.append(pin)

balance = 0

deposition = eval(input("Please input a value to deposit to start an account : "))

balance = balance + deposition

customerBalances.append(balance)

print("\nName=", end=" ")

print(customerNames[counter\_2])

print("Pin=", end=" ")

print(customerPins[counter\_2])

print("Balance=", end=" ")

print(customerBalances[counter\_2], end=" ")

print("$")

customertransaction.extend([date, name, "+", deposition])

counter\_1 = counter\_1 + 1

counter\_2 = counter\_2 + 1

print("\nYour name is added to customers system")

print("Your pin is added to customer system")

print("Your balance is added to customer system")

print("----New account created successfully !----")

print("\n")

print("Your name is avalilable on the customers list now : ")

print(customerNames)

print("\n")

print("Note! Please remember the Name and Pin")

print("========================================")

# statement below allows user to go back to the start of the program (main menu).

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")

elif choiceNumber == "2":

j = 0

print("Choice number 2 is selected by the customer")

# while loop will prevent the user using the account if the username or pin is wrong.

while j < 1:

k = -1

name = input("Please input name : ")

pin = input("Please input pin : ")

# while loop will keep the function running when variable k is smaller than length of the

# customerNames list.

while k < len(customerNames) - 1:

k = k + 1

# These two if conditions find whether both the name and pin matches.

if name == customerNames[k]:

if pin == customerPins[k]:

j = j + 1

# These statement would show the balance taken from the list.

print("Your Current Balance:", end=" ")

print(customerBalances[k], end=" ")

print("$")

balance = (customerBalances[k])

# Statement below would take the amount to withdraw from user.

withdrawal = eval(input("Input value to Withdraw : "))

# if condition below would look whether the withdraw is greater than balance.

if withdrawal > balance and withdrawal < 10000:

# statement below would take a deposition from the customer.

deposition = eval(input(

"Please Deposit a higher Value because your Balance mentioned above is not enough : "))

# These statements would update the value and show the balance to user.

balance = balance + deposition

print("Your Current Balance:", end=" ")

print(balance, end=" ")

print("$")

balance = balance - withdrawal

print("-\n")

print("----Withdraw Successfull!----")

customerBalances[k] = balance

print("Your New Balance: ", balance, end=" ")

print("$")

elif withdrawal < balance and withdrawal < 10000:

# Else condition mentioned above is to do withdrawal if the balance is greater than the

# withdraw amount.

balance = balance - withdrawal

customertransaction.extend([date, name, "-", withdrawal])

# These statement would update the values in the list and show it to the customer.

print("\n")

print("----Withdraw Successfull!----")

customerBalances[k] = balance

print("Your New Balance: ", balance, end=" ")

print("$\n\n")

else:

print("withdrwal invalid,exceed bank limit!")

break

if j < 1:

# if condition above would work when the pin or the name is wrong.

print("Your name and pin does not match!\n")

break

# statement below helps the user to go back to the start of the program (main menu).

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")

elif choiceNumber == "3":

print("Choice number 3 is selected by the customer")

n = 0

# while loop below would work when the pin or the username is wrong.

while n < 1:

k = -1

name = input("Please input name : ")

pin = input("Please input pin : ")

# The while loop below will keep function running to find the correct user.

while k < len(customerNames) - 1:

k = k + 1

# The two if conditions below find whether both the pin and the name is correct.

if name == customerNames[k]:

if pin == customerPins[k]:

n = n + 1

# These statements would show the customer balance and update list values according to

# the deposition made.

print("Your Current Balance: ", end=" ")

print(customerBalances[k], end=" ")

print("$")

balance = (customerBalances[k])

# This statement below takes the depositionn from the customer.

deposition = eval(input("Enter the value you want to deposit : "))

balance = balance + deposition

customerBalances[k] = balance

customertransaction.extend([date, name, "+", deposition])

print("\n")

print("----Deposition successful!----")

print("Your New Balance: ", balance, end=" ")

print("-/Rs\n\n")

if n < 1:

print("Your name and pin does not match!\n")

break

# statement allows the user to go back to the start of the program (main menu).

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")

elif choiceNumber == "4":

print("Choice number 4 is selected by the customer")

print(customertransaction)

for items in customertransaction:

print(items, end="")

k = 0

print("Customer name list and balances mentioned below : ")

print("\n")

# while loop below will keeping running until all the customers and balances are shown.

while k <= len(customerNames) - 1:

print("->.Customer =", customerNames[k])

print("->.Balance =", customerBalances[k], end=" ")

print("$")

print("\n")

k = k + 1

# statement below helps the user to go back to the start of the program (main menu).

mainMenu = input("Please press enter key to go back to main menu to perform another fuction or exit ...")

elif choiceNumber == "5":

j = 0

print("Choice number 5 is selected by the customer")

# while loop will prevent the user using the account if the username or pin is wrong.

while j < 1:

k = -1

name = input("Please input name : ")

pin = input("Please input pin : ")

# while loop will keep the function running when variable k is smaller than length of the

# customerNames list.

while k < len(customerNames) - 1:

k = k + 1

# These two if conditions find where both the name and pin matches.

if name == customerNames[k]:

if pin == customerPins[k]:

j = j + 1

# These few statement would show the balance taken from the list.

print("Your Current Balance:", end=" ")

print(customerBalances[k], end=" ")

print("$")

balance = (customerBalances[k])

print("deleting account...")

customerNames.remove(name)

customerPins.remove(pin)

customerBalances.remove(balance)

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")

elif choiceNumber == "6":

print("Choice number 6 is selected by the customer")

print("Thank you for using our banking system!")

print("\n")

print("Come again")

print("Bye bye")

break

elif choiceNumber == "7":

send = 0

print("Choice number 7 is selected by the customer")

j = 0

# This while loop will prevent the user using the account if the username or pin is wrong.

while j < 1:

k = -1

name = input("Please input name : ")

pin = input("Please input pin : ")

# This while loop will keep the function running when variable k is smaller than length of the

# customerNames list.

while k < len(customerNames) - 1:

k = k + 1

# These two if conditions find where both the name and pin matches.

if name == customerNames[k]:

if pin == customerPins[k]:

j = j + 1

# These few statement would show balance taken from the list.

print("Your Current Balance:", end=" ")

print(customerBalances[k], end=" ")

print("$")

balance = (customerBalances[k])

# Statement below would take the amount to withdraw from user.

send = eval(input("Input value to send: "))

# The if condition below would look whether the withdraw is greater than the balance.

if send > balance:

# This statement below would take a deposition from the customer.

deposition = eval(input(

"Please Deposit a higher Value because your Balance mentioned above is not enough : "))

# These few statements would update the value and show the balance to user.

balance = balance + deposition

print("Your Current Balance:", end=" ")

print(balance, end=" ")

print("$")

balance = balance - send

print("-\n")

print("----money has been sent to bank Successfull!,please wait----")

customerBalances[k] = balance

print("Your New Balance: ", balance, end=" ")

print("$")

else:

# Else condition mentioned is to do withdrawal if the balance is greater than the

# withdraw amount.

balance = balance - send

customertransaction.extend([date, name, "-", send])

# These few statement would update the values in the list and show it to the customer.

print("\n")

print("----money has been sent to bank Successfull!,please wait----")

customerBalances[k] = balance

print("Your New Balance: ", balance, end=" ")

print("$")

# while loop below would work when the pin or the username is wrong.

n = 0

# while loop would work when the pin or the username is wrong.

while n < 1:

k = -1

name = input("Please input name you want to send money to: ")

# while loop will keep the function running to find the correct user.

while k < len(customerNames) - 1:

k = k + 1

# The two if conditions below would find whether both the pin and the name is correct.

if name == customerNames[k]:

n = n + 1

# These statements below would show the customer balance and update list values according to

# the deposition made.

balance = (customerBalances[k])

balance = balance + send

customerBalances[k] = balance

customertransaction.extend([date, name, "+", send])

print("\n")

print("----money has been sent successful!----")

if n < 1:

print("Your name and pin does not match!\n")

break

# statement below helps the user to go back to the start of the program (main menu).

if j < 1:

# if condition above would work when the pin or the name is wrong.

print("Your name and pin does not match!\n")

break

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")

else:

# else function above works when a wrong function is chosen.

print("Invalid option selected by the customer")

print("Please Try again!")

# statement helps the user to go back to the start of the program (main menu).

mainMenu = input("Please press enter key to go back to main menu to perform another function or exit ...")