INT-108 Python Programming

PROJECT – Find the status of given numbers

ROLL NO – 68, 69, 70

Q. You task is to replicate the working of ATM for a single user, let's say, Mr. John, who has already

successfully logged into her account on the ATM Machine, now, we will program the next steps

he may want to perform.

Like display his name and cash available in his savings account

Withdraw cash and display the status of the cash balance.

Deposit cash and display the status of the cash balance.

(Your task is to design and implement the ATM functionality by taking care of all constraints, for

example if minimum cash available is less than 5000 then system will display low balance).

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#Project by:- A.T.M. Interface code
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import time as t
user_pin = 6969
user_balance = 9743.50
user_name = "Mr. John"
print("Welcome to your bank account", user_name, end = "\n\n")


choice = 9
```

```python
while (True):
    print("\t\t0. Logout and Exit")
    print("\t\t1. View Account Balance")
    print("\t\t2. Withdraw Cash")
    print("\t\t3. Deposit Cash")
    print("\t\t4. Change PIN")
    print("\t\t5. Return Card")
    choice = int(input("Enter number to proceed > "))
    print("\n\n")

    if choice == 0:
        print("Exiting...")
        t.sleep(2)
        print("You have been logged out. Thank you!\n\n")
        break

    elif choice in (1,2,3,4,5):
        num_of_tries = 3
        while (num_of_tries!=0):
            input_pin = int(input("Please enter your 4-digit PIN > "))

            if input_pin == user_pin:
                print("Account auhtorized!\n\n")

                if choice == 1:
                    print("Loading Account Balance...")
                    t.sleep(5)
                    print("Your current balance is Rs.", user_balance, end = "\n\n\n")
```

```python
    if user_balance<5000:
        print("Your account balance is lower than Minimum Balance required!!")
    break
elif choice == 2:
    print("Opening Cash Withdrawal...")
    t.sleep(5)

    while(True):
        withdraw_amt = float(input("Enter the withdrawal amount > "))
        if user_balance<5000:
            print("Your account balance is lower than Minimum Balance required!!")
            break
        if withdraw_amt>user_balance:
            print("Can't withdraw Rs.", withdraw_amt)
            print("Please enter a lower amount!")
            continue

        else:
            print("Withdrawing Rs.", withdraw_amt)
            confirm = input("Confirm? Y/N > ")
            if confirm in ('Y', 'y'):
                user_balance-=withdraw_amt
                print("Amount withdrawn - Rs.", withdraw_amt)
                print("Remaining balance - Rs.", user_balance, end = "\n\n\n")
                if user_balance<5000:
                    print("Your account balance is less than minimum ")
                break

            else:
```

```python
                print("Cancelling transaction...")

                t.sleep(1)

                print("Transaction Cancelled!\n\n")

                break


        break


elif choice == 3:

    print("Loading Cash Deposit...")

    t.sleep(1.5)


    deposit_amt = float(input("Enter the amount you wish to deposit > "))

    print("Depositing Rs.", deposit_amt)

    confirm = input("Confirm? Y/N > ")

    if confirm in ('Y', 'y'):

        user_balance+=deposit_amt

        print("Amount deposited - Rs.", deposit_amt)

        print("Updated balance - Rs.", user_balance, end = "\n\n\n")

    else:

        print("Cancelling transaction...")

        t.sleep(4)

        print("Transaction Cancelled!\n\n")


    break



elif choice == 4:

    print("Loading PIN Change...")

    t.sleep(5)
```

```python
        pin_new = int(input("Enter your new PIN > "))


        print("Changing PIN to", pin_new)

        confirm = input("Confirm? Y/N > ")

        if confirm in ('Y', 'y'):

            user_pin = pin_new

            t.sleep(4)

            print("PIN changed successfully! \n\n")

        else:

            print("Cancelling PIN change...")

            t.sleep(4)

            print("Process Cancelled!\n\n")


        break


    else:

        print("Loading Card Return...")

        t.sleep(5)


        print("Returning your ATM Card")

        confirm = input("Confirm? Y/N > ")

        if confirm in ('Y', 'y'):

            print("Card returned successfully! \n\n")

        else:

            print("Cancelling process...")

            t.sleep(4)

            print("Process Cancelled!\n\n")
```

```python
            break

        else:
            num_of_tries-=1
            print("PIN incorrect! Number of tries left -", num_of_tries, end = "\n\n")

    else:
        print("Exiting...")
        t.sleep(4)
        print("You have been logged out. Thank you!\n\n")
        break



else:
    print("Invalid input!")
    print("\t\t0. Enter 0 to Logout and Exit!")
    continue
```

OUTPUT

Welcome to your bank account Mr. John

                      0. Logout and Exit

                      1. View Account Balance

                      2. Withdraw Cash

                      3. Deposit Cash

                      4. Change PIN

                      5. Return Card

Enter number to proceed > 1

Please enter your 4-digit PIN > 6969

Account auhtorized!

Loading Account Balance...

Your current balance is Rs. 9743.5

0. Logout and Exit

                            1. View Account Balance

                            2. Withdraw Cash

                            3. Deposit Cash

                            4. Change PIN

                            5. Return Card

Enter number to proceed > 2

Please enter your 4-digit PIN > 6969
Account auhtorized!

Opening Cash Withdrawal...
Enter the withdrawal amount > 1000
Withdrawing Rs. 1000.0
Confirm? Y/N > Y
Amount withdrawn - Rs. 1000.0
Remaining balance - Rs. 8743.5

0. Logout and Exit

                    1. View Account Balance

                    2. Withdraw Cash

                    3. Deposit Cash

                    4. Change PIN

                    5. Return Card

Enter number to proceed > 3

Please enter your 4-digit PIN > 6969

Account auhtorized!

Loading Cash Deposit...

Enter the amount you wish to deposit > 2000

Depositing Rs. 2000.0

Confirm? Y/N > Y

Amount deposited - Rs. 2000.0

Updated balance - Rs. 10743.5

0. Logout and Exit

1. View Account Balance

2. Withdraw Cash

3. Deposit Cash

4. Change PIN

5. Return Card

Enter number to proceed > 4

Please enter your 4-digit PIN > 6969

Account auhtorized!

Loading PIN Change...

Enter your new PIN > 1131

Changing PIN to 1131

Confirm? Y/N > Y

PIN changed successfully!

0. Logout and Exit

                    1. View Account Balance

                    2. Withdraw Cash

                    3. Deposit Cash

                    4. Change PIN

                    5. Return Card

Enter number to proceed > 5

Please enter your 4-digit PIN > 1131

Account auhtorized!

Loading Card Return...

Returning your ATM Card

Confirm? Y/N > Y

Card returned successfully!

0. Logout and Exit

1. View Account Balance

2. Withdraw Cash

3. Deposit Cash

4. Change PIN

5. Return Card

Enter number to proceed > 0

Exiting...

You have been logged out. Thank you!