

# Bank Account Management System

## 3. Bank Account Management System

### Tasks:

- 1. Start with an initial balance of 0.
- 2. Implement a deposit function to add a specific amount to the account.
- 3. Implement a withdraw function to deduct a specific amount from the account, ensuring sufficient balance.
- 4. Provide a function to check the current account balance.
- 5. Add error handling for invalid amounts (e.g., negative or non-numeric input).
- 6. Create a menu-driven interface to switch between deposit, withdraw, check balance, and exit.

### Code

```
amount=0 #Start with an initial balance of `0`
```

```
#Implement a deposit function to add a specific amount to the account
```

```
def Deposit():  
    global amount  
    ea=int(input('Enter Amount '))  
    if ea<0:  
        print("please Enter Valid Number")  
        Deposit()  
    else:  
        amount+=ea
```

```
# Implement a withdraw function to deduct a specific amount from the account, ensuring  
sufficient balance
```

```
def Withdraw():  
    global amount  
    wa=int(input("please enter amount "))  
    if wa>amount:  
        print("Insuffisient Balance")
```

```

    Withdraw()
else:
    amount-=wa

# Provide a function to check the current account balance
def CheckBalance():
    global amount
    print("Your Current Balance:",amount)

n=0
print("Please choose you Choice")
print("1.Deposit")
print("2.Withdraw")
print("3.CheckBalance")
print("4.Exist")
n=int(input("Enter Your Chioce "))

# Create a menu-driven interface to switch between deposit, withdraw, check balance, and exit.
def Menu(n):
    if n==1:
        Deposit()
    elif n==2:
        Withdraw()
    elif n==3:
        CheckBalance()

while(n!=4):
    Menu(n)
    print("If you want to continue press y if not press n")
    c=input()
    if c=='y':
        print("1.Deposit")
        print("2.Withdraw")
        print("3.CheckBalance")
        n=int(input("Enter you choice"))

    else:
        n=4
print("Thank you for Visiting \U0001F600")

```

# Output

## Test 1: Menu Preview

```
Please choose you Choice
1.Deposit
2.Withdraw
3.CheckBalance
4.Exist
Enter Your Chioce 4
Thank you for Visiting 😊
PS C:\Lavanya_Code\Python_Lectures_Assignments\Bank_Account_Management_System>
```

## Test 2: Deposit entering negative amount

```
Please choose you Choice
1.Deposit
2.Withdraw
3.CheckBalance
4.Exist
Enter Your Chioce 1
Enter Amount -100
please Enter Valid Number
Enter Amount
```

## Test 3: Deposit Entering Valid amount

```
please Enter Valid Number
Enter Amount 1000
If you want to continue press y if not press n
```

## Test 4 :Check Balance

```
1.Deposit
2.Withdraw
3.CheckBalance
Enter you choice3
Your Current Balance: 1000
```

### Test 5: Withdraw insufficient balance

```
1.Deposit
2.Withdraw
3.CheckBalance
Enter you choice2
please enter amount 2000
Insuffisient Balance
please enter amount
```

### Test 6: Entering Sufficient Balance

```
Enter you choice2
please enter amount 2000
Insuffisient Balance
please enter amount 500
If you want to continue press y if not press n
```

### Check balance after withdraw done

```
y
1.Deposit
2.Withdraw
3.CheckBalance
Enter you choice3
Your Current Balance: 500
If you want to continue press y if not press n
```