PART B

Programs

2. Write a program menu driven to create a BankAccount class. class should support the following methods for i) Deposit ii) Withdraw iii) GetBalanace. Create a subclass SavingsAccount class that behaves just like a BankAccount, but also has an interest rate and a method that increases the balance by the appropriate amount of interest.

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Code:
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```
class Bank_Account:
  def __init__(self):
     self.balance=0;
     print("Welcome to the deposit & withdrawal machine")
  def deposit(self, amount):
     self.amount=amount
     self.balance +=self.amount
  def withdraw(self,amount):
     if self.balance>=amount:
       self.balance-=amount
       print("\n You withdrew:",amount)
     else:
       print("\n Insufficient balance ")
  def getbalance(self):
     print("\n Net Available Balance=",self.balance)
class Savings_Account(Bank_Account):
  def __init__(self,rate=0.10):
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Bank_Account.__init__(self)
     self.rate=rate
     self.balance=0
  def addinterest(self):
     interest=self.balance*self.rate
     Bank_Account.deposit(self,interest)
     return (self.balance)
s=Savings_Account()
wish='y'
while wish=='y':
  print("1.Deposit\n2.Withdraw\n3.Getbalance\n4.Interest credited")
  choice=int(input("Enter your choice:"))
  if choice==1:
     amount=float(input("Enter amount to be deposited :"))
    s.deposit(amount)
     print("Amount deposited ")
  elif choice==2:
     amount=float(input("Enter amount to be withdrawn :"))
     s.withdraw(amount)
  elif choice==3:
     s.getbalance()
  elif choice==4:
     print("Interest credited ")
     print("Balance after adding interest :",s.addinterest())
```

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else:
    print("Wrong choice")
  wish=input("Do you want to continue?(y/n)")
OUTPUT:
Welcome to the deposit & withdrawal machine
1.Deposit
2.Withdraw
3.Getbalance
4.Interest credited
Enter your choice:1
Enter amount to be deposited:100000
Amount deposited
Do you want to continue?(y/n)y
1.Deposit
2.Withdraw
3.Getbalance
4.Interest credited
Enter your choice:4
Interest credited
Balance after adding interest: 110000.0
Do you want to continue?(y/n)y
1.Deposit
2.Withdraw
```

3.Getbalance

4.Interest credited

Enter your choice:2

Enter amount to be withdrawn:5000

You withdrew: 5000.0

Do you want to continue?(y/n)y

- 1.Deposit
- 2.Withdraw
- 3.Getbalance
- 4.Interest credited

Enter your choice:3

Net Available Balance= 105000.0

Do you want to continue?(y/n)n