. LAB-program 5

. Develop a Java program to create a class Bank with current account and savings account

```java
import java.util.scanner;
class account
{
    String name;
    int accno;
    String type;
    double balance;

    account (String name, int accno, String type,
                                        double balance)
    {
        this . name = name;
        this . accno = accno;
        this . type = type;
        this . balance = balance;
    }

    void deposit (double amount)
    {
        balance += amount;
    }
    void withdraw (double amount)
    {
        if ((balance - amount) >= 0)
        {
            balance -= amount;
        }
        else
        {
            System.out.println ("inefficient balance, cant
                                    withdraw");
        }
    }
}
```

```java
    void display ()
    {
        System.out.println ("name: "+name+" accno: "+accno+" type: "
                            + type + "balance : " + balance);
    }
}
class SavAct extends account
{
    private static double rate = 5;
    SavAct (String name, int accno, double balance)
    {
        super (name, accno, "savings", balance);
    }

    void interest ()
    {
        balance += balance * (rate) / 100;
        System.out.println ("balance : " + balance);
    }
}

class CurAct extends account
{
    private double minBal = 500;
    private double servicecharges = 50;

    CurAct (String name, int accno, double balance)
    {
        super (name, accno, "current ", balance);
    }
    void checkmin()
    {
        if (balance < minbal)
        {
            System.out.println ("balance is less than min
                balance, Service charges imposed
                :" + servicecharges);
```

```java
                balance -= service charges;
                System.out.println ("balance is : " + balance);
            }
        }
    }

class accountMain
{
    public static void main (String a[])
    {
        Scanner s = new Scanner (System.in);
        System.out.println ("enter the name :");
        String name = s.next();
        System.out.println ("enter the type (current/savings) :");
        String type = s.next();
        System.out.println ("enter the account number :");
        int accno = s.nextInt();
        System.out.println ("Enter the initial balance :");
        double balance = s.nextDouble();
        int ch;
        double amount1, amount2;
        account acc = new account (name, accno, type, balance);
        savAct sa = new savAct (name, accno, balance);
        curAct ca = new curAct (name, accno, balance);
        while (true)
        {
            if (acc.type.equals ("Savings"))
            {
                System.out.print ("\nMenu \n1.deposit
                    2.withdraw   3.compute interest
                    4.display");
                System.out.print ("Enter the choice :");
                ch = s.nextInt();
                Switch (ch)
```

```java
                {
                    case 1 : System.out.println ("enter the amount :");
                             amount1 = s.nextInt();
                             sa.deposit (amount1);
                             break;
                    case 2 : System.out.println ("enter the amount :");
                             amount2 = s.nextInt();
                             sa.deposit (amount2);
                             break;
                    case 3 : sa.interest ();
                             break;
                    case 4 : sa.display();
                             break;
                    case 5 : System.exit (0);
                    default : System.out.println ("invalid input");
                             break;
                }
            }
            else
            {
                System.out.println ("\nMenu \n1.deposit 2.withdraw
                    3.display");
                System.out.println ("Enter the choice :");
                ch = s.nextInt();
                Switch (ch)
                {
                    case 1 : System.out.println ("Enter the amount :");
                             amount1 = s.nextInt();
                             ca.deposit (amount1);
                             break;
                    case 2 : System.out.println ("enter the amount :");
                             amount2 = s.nextInt();
                             ca.withdraw (amount2);
                             ca.checkmin ();
                             break;
```

```
                    Case 3: a.display();
                              break;
                    Case 4: System.exit(0);
                 }
              }
           }
```

OUTPUT:

→ Enter the name:
  Shrey
→ enter the type (current/savings):
  current
→ Enter the account number:
  1001
→ enter the initial balance:
  2000

→ menu:
  1.deposit   2.withdraw   3.display
  1
  enter the amount: 1000

→ menu:
  1.deposit   2.withdraw   3.display
  2
  enter the amount: 500

→ menu:
  1.deposit   2.withdraw   3.display
  3.

→ name: Shrey accno: 1001 type: current balance