Lab 5

```
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("insufficient balance, cant withdraw
     }
  }
  void display()
```

```
{
    System.out.println("name:"+name+"accno:"+accno+
                       "type:"+type+"balance:"+balance);
    }
}
class savAcct extends account
{
    private static double rate=5;
    savAcct(String name, int accno, double balance)
    {
        super(name, accno, "savings", balance);
    }
    void interest()
    {
        balance += balance*(rate)/100;
        System.out.println("balance:"+balance);
    }
}
class curAcct extends account
{
    private double minBal=500;
    private double serviceCharges=50;

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

```
        balance -= serviceCharges;
        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 acc no:");
        int accno=s.nextInt();
        System.out.println("enter the intial balance:");
        double balance=s.nextDouble();
        int ch;
        double amount1, amount2;
        account acc=new account(name,accno,type,balance);
        savAcct sa=new savAcct(name,accno,balance);
        curAcct ca=new curAcct(name,accno,balance);
        while(true)
        {
            if(acc.type.equals("savings"))
            {
                System.out.println("\n Menu\n 1.deposit
                    2.withdraw 3.compute interest 4.display
                    5.exit");
                System.out.println("enter the choice:");
                ch=s.nextInt();
```

```
switch (ch)
{
    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.withdraw(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("\n Menu\n1.deposit 2.withdraw
            3.display 4.exit");
  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: ca.display(); break;
case 4: System.exit(0);
        }
    }
}
```

O/P

```
enter the name:
praneeta
enter the type (current/savings);
current:
enter the account number;
1234
enter the initial balance:
2000

Menu
1. deposit 2. withdraw 3. display 4. exit
enter the choice
1
enter the amount:
500

Menu
1. deposit 2. withdraw 3. display 4. exit
enter the choice
3
name: praneeta acno: 1234 type: current balance: 2500

Menu
1. deposit 2. withdraw 3. display 4. exit
enter the choice
4.
```

9/11/24