Lab Program 5

```
import java.util.*;
import java.lang.Math;
class Account
{
    String name;
    int acctno;
    char type;
    double balance;
    double dep;
    boolean cheq;

  void get(char c)
{
    type = c;
    if (c == 's' || c == 'S')
     cheq = false;
    else cheq = true;
    Scanner sc = new Scanner(System.in);
   System.out.println("Enter your name");
    name = sc.NextLine();
   System.out.println("Enter the account number");
    acctno = sc.nextInt();
    System.out.println("Enter the current available
                                balance in your account");
   balance = sc.nextDouble();
}
```

```
void putd()
{
    System.out.println("Account details");
    System.out.println("Name : "+name);
    System.out.println("Account number : "+actno);
    System.out.println("Account type : "+type);
    System.out.println("balance : "+balance);
}
void dep()
{
        Scanner ss = new scanner(System.in)
        System.out.println("Enter the amount
                            to be deposited");
        dep =ss.nextDouble();
        balance =balance+dep;
        System.out.println("Amount has been
                            deposited and balance has
                            been updated");
}
void display()
{
    System.out.println("Balance amount is"+balance);
}
void check()
{
    if (cheq == false)
    System.out.println("Cheque book facility is
                        not available");
```

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        else
        System.out.println("cheque book facility is
                                    available");
    }
}
class savings extends Account
{
    double rate;
    double s_with;
    int n;
    int ch;
    double amt;
    double term;
    double pr;
    void ci()
{
    Scanner ss = new Scanner(System.in)
    System.out.println("Enter principal deposit
                                    amount");
    pr = ss.nextDouble();
    System.out.println("Enter the rate of interest");
    rate = ss.nextDouble();
    System.out.println("Enter the term (years)");
    term = ss.nextDouble();
    System.out.println("Enter the number of times
                                    interest in compound annually");
```

```
n=ss.nextDouble();
System.out.println("Enter the number of times
                    interest in compound
                    annually");
n = ss.nextInt();
amt = pr * Math.pow((1+(rate/100)),(n*terms));
balance+=amt;
System.out.println("Interest is compounded
                    and deposited is updated");
}
void with_s()
{
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter the amount of
                        money to be withdrawn");
    s_with = ss.nextDouble();
    if (s_with > balance)
    System.out.println("Insufficient balance");
    else
    { balance = balance - s_with;
    System.out.println("Money has been
                        withdrawn and balance
                        has been updated"); }
}
}
class current extends Account
{
```

```
double c_with;
double pen;
double min;
current ()
{
    pen = 100;
   min =500;
}
void with_c()
{
      Scanner xx = new Scanner (System.in)
      System.out.println ("Enter the amount to
                              be withdrawn");
      c_with =xx.nextDouble ();
      if (c_with > balance)
     {System.out.println ("Insufficient Funds!");
     return; }
      else
     if (balance <min)
  {
     System.out.println ("Balance is below the
                          minimum threshold. Service
                          penalty charge =100/-.");
   if (balance <pen)
  System.out.println ("Due to insufficient funds,
                       penalty charge will be deducted
                       from account after replenshing
                      Current balance is "+balance);
```

```
else
{
    balance = balance - pen;
    System.out.println("Penalty charge has been
                        deducted from account
                        balance. Current balance is
                        " + balance).
        }
    }
}
}
public class lab6
{
    public static void main (String sss[])
        int cch, chh;
    Scanner sx = new Scanner (System.in);
    System.out.println("-----WELCOME-----");
    System.out.println("Savings account or current
                        account ; 2-Current");
    int ch = sx.nextInt();
    if (ch==1)
    {
        Saving s = new Saving ();
        s.get ('s');
        do {
        System.out.println("1. Deposit money \n2. Calculate
                            compound interest \n3. withdraw
                            money \n4. Display balance \n5.
                            chegue book facility \n6. Exit");
```

```
System.out.println("Enter your choice");
ch = sx.nextInt();
switch (chh)
{
    case 1:
    s.dep();
    break;

    case 2:
    s.ci();
    break;

    case 3:
    s.with_s();
    break;

    case 4:
    s.display();
    break;

    case 5:
    s.check();
    break;

    case 6:
    break;

default:
system.out.println("Wrong option.");
```

```
        break;
    }
  }
 } while (chh!=6);
}
 else if (ch==2)
 {
      Current cr = new Current();
      cr.get('c');
      do {
      System.out.println("1. Deposit money\n2. Cheque
                          book facility\n3. Withdraw
                          money\n4. Display balance
                          \n5. Exit");

    cch =sx.nextInt();
    switch (cch)
    {
        case 1:
        cr.dep();
        break;

        case 2:
        cr.check();
        break;

        Case 3:
        cr.with_c();
        break;
```

```
        case 4:
        cr.display();
        break;

        case 5:
        break;

        default:
        System.out.println("Wrong option.");
        break;
    }
} while (cch!=5);
}
else system.out.println("Wrong!");
}
}
```