Lab Program 5

```
import java.util.Scanner;
abstract class Account
{
    string cust_name;
    long acc_no;
    string acc_type;
    double balance;
    double main_bal = 1000.0;
    Account (string cust_name, long acc_no, string
        acc_type, double balance)
    {
        this.cust_name = cust_name;
        this.acc_no = acc_no;
        this.acc_type = acc_type;
        this.balance = balance;
    }
    abstract void deposit (double amount);
    abstract void display ();
    abstract void withdrawal (double amount);
}
class C cur_act extends Account
{
    double penalty = 100.0;
    cur_act (string cust_name, long acc_no,
            string acc_type, double balance)
    {
        super (cust_name, acc_no, acc_type, balance);
        System.out.println ("Name of customer"
                + cust_name);
        System.out.println ("Account Number: " + acc_no);
        System.out.println ("Account type :" + acc_type);
        System.out.println ("Balance :" + balance);
```

```
}
void deposit (double amount)
{
  this.balance = this.balance + amount;
}
void withdrawal (double amount)
{
  this.balance = this.balance - amount;
  imposepenalty ();
  system.out.println ("The current balance is :" + balance);
}
void imposepenalty ()
{
  if (this.balance < min_bal) {
  {
    this.balance = this.balance - penalty;
    system.out.println ("The balance amount is
      in-sufficient, the penalty imposed - 100Rs");
  }
}
void display()
{
  system.out.println ("Balance is : " + this.balance);
}
}
class saving-account extends account
{
  saving_account (string cust-name, long acc-no,
      string acc-type, double balance);
{
  super (cust_name, acc_no, acc_type, balance)
  system.out.println ("Name of the coustumer : " + cust-name)
  system.out.println ("Account Number : " + acc_no);
```

```
System.out.println("Account type:" + acc_type);
System.out.println("Balance :" +balance);
}

void deposit (double amount)
{
  this.balance = this.balance + amount;
  intrest ();
}
void interest()
{
  int rate=10, time=1;
  float ci = (float)(this.balance * math.pow
        (1+rate)/100.0, time) - this.balance);
  this.balance = this.balance + ci;
}
void withdrawal (double amount)
{
  this.balance = this.balance - amount;
  System.out.println("The current balance":+balance);
}
void display()
{
  System.out.println("Balance is" + this.balance);
  }
}
class AccoudMain.
{
  public staticvoidmain(String [] args)
  {
    Scanner xx = new Scanner (System.in);
    Double amount;
    int flag = 0;
    while (flag != 0)
```

{

system.out.println("Enter type of Account: \n
1. current account \n 2. Savings account ");
int choice = xx.nextInt();
switch (choice)
{

case1: System.out.println("\n Current Account: \n");
System.out.println("Enter the name of account holder");
String f = xx.next();
System.out.println("Enter the account number");
long g = xx.nextlong();
System.out.println("Enter the balance amount");
double h = xx.nextdouble();
curr_act c = new curr_acct(f, g, "current", h);
int flag1 = 0;
while (flag1 == 0):
{

System.out.println("Enter your choice \n 1:
deposit amount \n 2: Display Balance \n
3. withdraw");
int choice1 = xx.nextInt();
Switch (choice1)
{

Case 1:
System.out.println("Enter amount to be deposited:");
amount = xx.nextDouble();
c.deposit(amount);
break;
case 2: c.display();
break;
case 3: System.out.println("Enter amount you
need to withdraw");
amount = xx.nextdouble();

```
c.withdrawal(amount);
break;
default;
flag1=1;
}
}
break;
case 2: System.out.println("Saving Account:\n");
        System.out.println("Enter the name of the account
            holders");
        string p = xx.next();
        system.out.println("Enter the account number");
        long q = xx.nextlong();
        system.out.println("Enter the balance amount");
        double r = xx.nextdouble();
        Saving-account s: new saving-account(p,q,
                "Savings",r);
        int flag2=0;
        while(flag2==0)
        {
          System.out.println("Enter your choice \n
        1.Deposit amount \n 2:Display balance \n
        3:withdraw");
        int choice2 = xx.nextInt();
        switch(choice2)
        {
          case 1: System.out.println("Enter amount to be
              deposited:");
          amount = xx.nextDouble();
          s.deposit(amount);
          break;
        case 2: s.display();
                break;
```

```
case 3 : System.out.println ("Enter amount you want
          to withdraw : ");
amount = xx.nextdouble();
s.withdrawal (amount);
break;
default;
flag 2 = 1;
}
}
break;
default : flag = 1;
}
}
}
}
```