**Java Bean**

1) Write a java program using java bean class.

**Program:**

com.bean.BankServer.java

**package** com.bean;

**import** java.io.\*;

**public** **class** BankServer **implements** java.io.Serializable {

**private** String Userid;

**private** String Username;

**private** **long** Account\_no;

**private** String Password;

**double** Balance;

**public** String get\_Userid()

{

**return** Userid;

}

**public** String get\_Username()

{

**return** Username;

}

**public** String get\_Password()

{

**return** Password;

}

**public** **long** get\_Account\_no()

{

**return** Account\_no;

}

**public** **double** get\_Balance()

{

**return** Balance;

}

**public** **void** set\_Username(String user)

{

Username=user;

}

**public** **void** set\_Userid(String uid)

{

Userid=uid;

}

**public** **void** set\_Password(String pw)

{

Password=pw;

}

**public** **void** set\_Account\_no(**long** acno)

{

Account\_no=acno;

}

**public** **void** set\_Balance(**double** bal)

{

Balance=bal;

}

}

com.bean.ClientServer.java

**package** com.bean;

**import** java.util.\*;

**public** **class** ClientServer {

**public** **void** credit(BankServer b,**double** amt)

{

**double** initial,clearing\_balance;

initial=b.get\_Balance();

clearing\_balance=initial+amt;

b.set\_Balance(clearing\_balance);

System.***out***.println("The available account balance is "+clearing\_balance);

}

**public** **void** debit(BankServer b,**double** amt)

{

**double** initial,clearing\_balance;

initial=b.get\_Balance();

clearing\_balance=initial-amt;

b.set\_Balance(clearing\_balance);

System.***out***.println("The available account balance is "+clearing\_balance);

}

**public** **static** **void** main(String args[])

{

**int** ch;

Scanner sc=**new** Scanner(System.***in***);

BankServer b=**new** BankServer();

System.***out***.println("Enter Username");

String user=sc.nextLine();

b.set\_Username(user);

System.***out***.println("Enter Userid");

String uid=sc.nextLine();

b.set\_Userid(uid);

System.***out***.println("Enter Password");

String pw=sc.nextLine();

b.set\_Password(pw);

System.***out***.println("Enter Account\_no");

**long** acno=sc.nextLong();

b.set\_Account\_no(acno);

System.***out***.println("Enter Opening Balance");

**double** opbal=sc.nextLong();

b.set\_Balance(opbal);

**while**(**true**) {

System.***out***.println("Enter 1 to display details");

System.***out***.println("Enter 2 to deposit");

System.***out***.println("Enter 3 to withdraw");

System.***out***.println("Enter 4 to exit this menu");

ch=sc.nextInt();

ClientServer cs=**new** ClientServer();

**switch**(ch)

{

**case** 1:

{

System.***out***.println("Username "+b.get\_Username());

System.***out***.println("User id: "+b.get\_Userid());

System.***out***.println("Account no "+b.get\_Account\_no());

System.***out***.println("Available balance "+b.get\_Balance());

**break**;

}

**case** 2:

{

System.***out***.println("Enter the deposit ammount ");

**double** amt=sc.nextInt();

cs.credit(b, amt);

**break**;

}

**case** 3:{

System.***out***.println("Enter the withdraw ammount ");

**double** amt=sc.nextInt();

cs.debit(b, amt);

**break**;

}

**case** 4:

System.*exit*(0);

**default**:

System.***out***.println("Wrong entry");

}

}

}

}

**Output:**

Enter Username

Soumyadip Ghosh

Enter Userid

sdg001

Enter Password

soumy161

Enter Account\_no

1967834001

Enter Opening Balance

110000

Enter 1 to display details

Enter 2 to deposit

Enter 3 to withdraw

Enter 4 to exit this menu

1

Username Soumyadip Ghosh

User id: sdg001

Account no 1967834001

Available balance 110000.0

Enter 1 to display details

Enter 2 to deposit

Enter 3 to withdraw

Enter 4 to exit this menu

2

Enter the deposit ammount

20000

The available account balance is 130000.0

Enter 1 to display details

Enter 2 to deposit

Enter 3 to withdraw

Enter 4 to exit this menu

3

Enter the withdraw ammount

25000

The available account balance is 105000.0

Enter 1 to display details

Enter 2 to deposit

Enter 3 to withdraw

Enter 4 to exit this menu