1BM19CS138

PACKAGE LAB PROGRAM

"student.java"

```
Package cie;
import java.util.*;
Public class student
{
    Public String usn;
    Public String name;
    public int sem;
    Public void read()
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter usn of student : ");
        usn = sc.next();
        System.out.println ("Enter name of student : ");
        name = sc.next();
        System.out.print ("Enter semester : ");
        sem = sc.nextInt();
    }
}
```

"internals.java"

```
Package cie;
import java.util.*;
Public class internals extends student
{
    Public int[] cie_m = new int[3];
    Public void read()
    {
        super.read();
        Scanner sc = new Scanner (system.in);
        System.out.println ("Enter CIE marks : ");
```

```java
for (int i=0; i<3; i++)
{
    System.out.println("Enter marks of the course "+(i+1)+": ")
    cie_m[i] = sc.nextInt();
}
}

public void display()
{
    System.out.println("usn of student is "+usn);
    System.out.println("Name of student is "+name);
    System.out.println("Semester of student is "+sem);
}
}
```

"externals.java"

```java
package see;
import java.util.*;
import java.io;
import java.lang.*;

Public class external extends cie.student
{
    Public int[] see_m = new int[3];
    public int[] mar;
    public void read()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter SEE marks : ");
        for(int i=0; i<3; i++)
        {
            System.out.print("Enter SEE marks of the course"
                    +(i+1)+": ");
            see_m[i] = sc.nextInt();
        }
    }
}
```

```java
"main_stu.java"

import java.util.*;
import java.io;
import java.lang.*;
import cie.*;
import see.*;

public class student_end
{
public static void main (String[] args)
{
    int n;
    Scanner sc = new Scanner (System.in);
    int final_mark;
    System.out.print ("Enter number of students: ");

    n = sc.nextInt();
    internals[] in = new internals [n];
    external[] ex = new external [n];
    internals obl = new internals ();
    external ob2 = new external ();
    ob2.mar = new int[n];

    for (int i=0; i<n; i++)
    {
    System.out.println ("Enter details of student " + (i+1) + ": ");
        in[i] = new internals ();
        in[i].read ();
        ex[i] = new external ();
        ex[i].read ();
    }
        System.out.println ();
        for (int i=0; i<n; i++)
        {
        System.out.println ("Details of student " + (i+1));
        System.out.println ("USN of student is " + in[i].usn);
```

```java
System.out.println("Name of student is " + in[i].name);

System.out.println("Semester of student is " + in[i].sem);

    for(int j=0; j<3; j++)

{

    final_mark = in[i].cie-m[j] + ((ex[i].see-m[j]/2);

System.out.println("Final mark of student " + (i+1) + " " +

        "in course " + (j+1) + " " + final_mark);

}

    System.out.println();

}

}

}
```

OUTPUT :-

Enter Number of students : 2

Enter details of student 1 :

Enter USN of student : 123

Enter name of student : sai

Enter semester of student : 2

Enter the CIE marks :

Enter the marks of course 1 : 34

Enter the marks of course 2 : 36

Enter the marks of course 3 : 38

Enter the SEE marks :

Enter SEE marks of course 1 : 78

Enter SEE marks of course 2 : 80

Enter SEE marks of course 3 : 90

Enter details of student 2 :

Enter the USN of student : ram

Enter the name of student : 456

Enter the semester of student : 2

Enter the CIE marks:

Enter marks of course 1 : 34

Enter marks of course 2 : 39

Enter marks of course 3 : 40

Enter the SEE marks:

Enter marks of course 1 : 89

Enter marks of course 2 : 78

Enter marks of course 3 : 88

Details of student 1

USN of student is 123

Name of student is sai

Semester of student is 2

Final marks of student 1 in course 1 : 73

Final marks of student 1 in course 2 : 76

Final marks of student 1 in course 3 : 83

Details of student 2

USN of student is 456

Name of student is ram

Semester of student is 2

Final marks of student 2 in course 1 : 78

Final marks of student 2 in course 2 : 78

Final marks of student 2 in course 3 : 84