

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.print("Enter usn of the student : ");
        usn=sc.next();
        System.out.print("Enter name of the student : ");
        name=sc.next();
        System.out.print("Enter semester of the student : ");
        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 the CIE marks : ");
    for(int i=0;i<3;i++)
    {
        System.out.print("Enter marks of the course " + (i+1)+" : ");
        cie_m[i]=sc.nextInt();
    }
}
public void display()
{
    System.out.println("USN of the student is " + usn);
    System.out.println("Name of the student is " + name);
    System.out.println("Semester of the student is " + sem);
}
}

```

externals.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 the SEE marks : ");
        for(int i=0;i<3;i++)
        {
            System.out.print("Enter the SEE marks of the course " +
(i+1)+" : ");
            see_m[i]=sc.nextInt();
        }
    }
}

```

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 the Number of students : ");
        n=sc.nextInt();
        internals[] in=new internals[n];
        external[] ex=new external[n];
        internals ob1=new internals();
        external ob2=new external();
    }
}

```

```

        ob2.mar=new int[n];

        for(int i=0;i<n;i++)
        {
            System.out.println("Enter the details of the 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 The Student " + (i+1));
            System.out.println("USN of the student is " +
in[i].usn);
            System.out.println("Name of the stuednt is " +
in[i].name);
            System.out.println("Semester of the 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 the student " +
(i+1) + " " + " in course " + (j+1) + " " + final_mark);

            }
            System.out.println();
        }

    }

}

```

OUTPUT:

```
Windows PowerShell
PS D:\sem3\ooj_lab\20-11-2020\lab9> javac .\student_end.java
PS D:\sem3\ooj_lab\20-11-2020\lab9> java student_end
Enter the Number of students : 2
Enter the details of the student 1:
Enter usn of the student : 1
Enter name of the student : q
Enter semester of the student : 2
Enter the CIE marks :
Enter marks of the course 1: 34
Enter marks of the course 2: 36
Enter marks of the course 3: 38
Enter the SEE marks :
Enter the SEE marks of the course 1: 78
Enter the SEE marks of the course 2: 80
Enter the SEE marks of the course 3: 90
Enter the details of the student 2:
Enter usn of the student : 2
Enter name of the student : w
Enter semester of the student : 2
Enter the CIE marks :
Enter marks of the course 1: 34
Enter marks of the course 2: 39
Enter marks of the course 3: 40
Enter the SEE marks :
Enter the SEE marks of the course 1: 89
Enter the SEE marks of the course 2: 78
Enter the SEE marks of the course 3: 88

Details Of The Student 1
USN of the student is 1
Name of the student is q
Semester of the student is 2
Final Mark of the student 1 in course 1 73
Final Mark of the student 1 in course 2 76
Final Mark of the student 1 in course 3 83

Details Of The Student 2
USN of the student is 2
Name of the student is w
Semester of the student is 2
Final Mark of the student 2 in course 1 78
Final Mark of the student 2 in course 2 78
Final Mark of the student 2 in course 3 84

PS D:\sem3\ooj_lab\20-11-2020\lab9> _
```
