

PACKAGE PROGRAM:

```
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 the usn of the student ");
        usn=sc.next();
        System.out.println("Enter the name of the student ");
        name=sc.next();
        System.out.println("Enter the semester of the student ");
        sem=sc.nextInt();
    }
}
```

```
package cie;

import java.util.*;

public class internals extends student
{
    public int[] a=new int[5];

    public void read()
    {
```

```

        super.read();
Scanner sc=new Scanner(System.in);
System.out.println("Enter the CIE marks of 5 courses ");
for(int i=0;i<5;i++)
{
    System.out.println("Enter marks of the course " + (i+1));
    a[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);
}
}

```

```

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

public class external extends cie.student
{
    public int[] b=new int[5];
    public int[] mar;
    public void read()

```

```

    {
        Scanner sc=new Scanner(System.in);
        for(int i=0;i<5;i++)
        {
            System.out.println("Enter the SEE marks of the course " + (i+1));
            b[i]=sc.nextInt();
        }
    }
}

```

```

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.println("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 student is " + in[i].name);
    System.out.println("Semester of the student is " + in[i].sem);
    for(int j=0;j<5;j++)
    {
        final_mark=in[i].a[j]+((ex[i].b[j])/2);
        System.out.println("Final Mark of the student " + (i+1) + " " + " in course "
+ (j+1) + " " + final_mark);
    }
    System.out.println();
}

}

}

```

OUTPUT:

```

C:\Users\Shreehari Kulkarni\OneDrive\Desktop\LAB SUBJECT\JAVALAB>javac student_end.java
C:\Users\Shreehari Kulkarni\OneDrive\Desktop\LAB SUBJECT\JAVALAB>java student_end
Enter the Number of students
5
Enter the details of the student 1
Enter the use of the student
18H19CS153
Enter the name of the student
SHREEHARI
Enter the semester of the student
3
Enter the CIE marks of 5 courses
Enter marks of the course 1
48
Enter marks of the course 2
48
Enter marks of the course 3
42
Enter marks of the course 4
48
Enter marks of the course 5
47
Enter the SEE marks of the course 1
96
Enter the SEE marks of the course 2
96
Enter the SEE marks of the course 3
100
Enter the SEE marks of the course 4
92
Enter the SEE marks of the course 5
88
Enter the details of the student 2
Enter the use of the student
18H19CS155
Enter the name of the student
SUDHAS
Enter the semester of the student
3
Enter the CIE marks of 5 courses
Enter marks of the course 1
47
Enter marks of the course 2
47
Enter marks of the course 3
47
Enter marks of the course 4
47
Enter marks of the course 5
47
Enter the SEE marks of the course 1
96
Enter the SEE marks of the course 2
94
Enter the SEE marks of the course 3
92
Enter the SEE marks of the course 4
100
Enter the SEE marks of the course 5
98

```

```

100
Enter the SEE marks of the course 5
98

Use of the student is 18H19CS153
Name of the student is SHREEHARI
Semester of the student is 3
Final Mark of the student1 in course 1 96
Final Mark of the student1 in course 2 97
Final Mark of the student1 in course 3 92
Final Mark of the student1 in course 4 86
Final Mark of the student1 in course 5 91

Use of the student is 18H19CS155
Name of the student is SUDHAS
Semester of the student is 3
Final Mark of the student2 in course 1 95
Final Mark of the student2 in course 2 94
Final Mark of the student2 in course 3 93
Final Mark of the student2 in course 4 97
Final Mark of the student2 in course 5 96

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```