

LAB -6

```
package CIE;
import java.util.Scanner;
public class Student
{
    public String usn, name;
    public int sem;

    public void getdata(){
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter student usn: ");
        usn= sc.next();
        System.out.println("Enter student name: ");
        name= sc.next();
        System.out.println("Enter semester: ");
        sem= sc.nextInt();
    }
    public void printdata(){
        System.out.println("Student Details: ");
        System.out.println("USN: "+usn);
        System.out.println("Name: "+name);
        System.out.println("Semester: "+sem);
    }
}
```

```
package CIE;
import java.util.Scanner;
public class Internals extends Student
{
    public int cie[]= new int[5];

    public void getcie(){
        for(int i=0;i<5; i++){
            Scanner sc= new Scanner(System.in);
            System.out.println("Enter subject "+(i+1)+" cie marks: ");
            cie[i]= sc.nextInt();
        }
    }
}
```

```

package SEE;
import CIE.*;
import java.util.Scanner;
public class Externals extends CIE.Student
{
    public int see[]= new int[5];

    public void getsee(){
        for(int i=0; i<5; i++){
            Scanner sc= new Scanner(System.in);
            System.out.println("Enter subject "+(i+1)+" see marks: ");
            see[i]= sc.nextInt();
        }
    }
}

```

```

import CIE.*;
import SEE.*;
import java.util.Scanner;
class TotalMarks
{
    public static void main(String sss[]) {
        Scanner sc = new Scanner(System.in);
        int n, i;
        double total[]= new double[5];

```

```

        System.out.println("Enter the num of students: ");
        n =sc.nextInt();

```

```

        CIE.Internals in[]= new CIE.Internals[n];
        SEE.Externals ext[]= new SEE.Externals[n];
        for(i=0; i<n; i++)
        {
            in[i]= new CIE.Internals();
            ext[i]= new SEE.Externals();
            in[i].getdata();
            in[i].printdata();
            System.out.println("Internal marks: ");
            in[i].getcie();
            System.out.println("External marks: ");
            ext[i].getsee();
        }
        for(i=0; i<n; i++){

```

```
for(int j=0; j<5; j++){  
total[j]= (double) in[i].cie[j]+(ext[i].see[j]/2);  
System.out.println("Total marks in subject "+(j+1)+" by student "+(i+1)+": "+total[j]);  
} } }
```

```
C:\Users\llok\l\Desktop\java\packages>javac Student.java
```

```
C:\Users\llok\l\Desktop\java\packages>javac Internals.java
```

```
C:\Users\llok\l\Desktop\java\packages>javac Externals.java
```

```
C:\Users\llok\l\Desktop\java\packages>javac main.java
```

```
C:\Users\llok\l\Desktop\java\packages>java main
```

```
Enter the number of students:
```

```
2
```

```
Name:
```

```
jay
```

```
USN:
```

```
1BM19cs067
```

```
Semester:
```

```
3
```

```
CIE Marks for 5 subjects(out of 50):
```

```
50
```

```
40 30 20 40
```

```
SEE Marks for 5 subjects(out of 100):
```

```
99 98 80 95 92
```

```
Total marks of student jay in 5 subjects are:
```

```
99.5
```

```
89.0
```

```
70.0
```

```
67.5
```

```
86.0
```

```
Name:
```

```
jayanti
```

```
USN:
```

```
1BM19CS067
```

```
Semester:
```

```
5
```

```
CIE Marks for 5 subjects(out of 50):
```

```
50
```

```
40
```

```
30 45 47
```

```
SEE Marks for 5 subjects(out of 100):
```

```
97 98 87 96 75
```

```
Total marks of student jayanti in 5 subjects are:
```

```
98.5
```

```
89.0
```

```
73.5
```

```
93.0
```

```
84.5
```

```
C:\Users\llok\l\Desktop\java\packages>
```

