Week-6

```java
Package CIE;

import java.util Scanner;
public class Student {

    Protected String USN = new String();
    Protected String name = new String();
    Protected int Sem;

    Public void inputStudentDetails() {
        Scanner S = new Scanner(System.in);
        System.out.Print("Enter USN:");
        USN = s.next();
        System.out.Print("Enter name:");
        name = s.next();
        System.out.Print("Enter Semester:");
        Sem = s.next Int();

    }
    Public void displayStudentDetails() {
        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 {
```

```java
Protected int marks [ ] = new int [5]
Public void     input CIEmarks ( ) {
    Scanner s = new Scanner (System.in);
    for (int i = 0; i < 5; i++) {
        System.out.Println(" Enter CIE marks for
            Subject " + (i+1) + " : ");
        marks [i] = s.nextInt();
    }
}
```

```java
Package SEE ;
import CIE . Internals ;
import Java . util . Scanner ;
Public class Externals extends Internals {
    Protected int final Marks [ ] = new int [5];
    Public void     input SEE marks ( ) {
        Scanner s = new Scanner (system.in);
        for (int i = 0; i < 5; i++) {
            System.out.Print ("Enter SEE marks for
                Subject " + (i+1) + " : ");
            super.marks [i] = s.next Int ( );
        }
    }
    Public void calculate Final Marks ( ) {
        for (int i = 0; i < 5; i++)
            final Marks [i] = super.marks [i] / 2 +
                super.marks [i];
    }
}
```

```java
Public void displayFinalMarks() {
    displayStudentDetails();
    for (int i = 0; i < 5; i++)
        System.out.Println("subject " + (i+1) +":"
        + finalMarks[i]);
    }
}

import SEE.Externals;
class Main {
Public    Static void main (String args[]) {
    int numofStudents = 2;
    Externals finalMarks[] = new Externals[num of
                                              Students];

    for (int i = 0; i < numofStudents; i++) {
        finalMarks[i] = new Externals();
        finalMarks[i].inputStudentDetails();
        System.out.Println("Enter CIE Marks");
        finalMarks[i].input CIE marks();
        System.out.Println("Enter SEE marks");
        finalMarks[i].input SEE marks();
    }

    System.out.Println("Displaying data :\n");
    for (int i = 0; i < numof Students; i++) {
        finalMarks[i].calculate finalMarks();
        finalMarks[i].display FinalMarks();
    }
}
}
```

Output

Enter Subject 1 marks : 30

Enter Subject 2 marks : 50

Enter Subject 3 marks : 40

Enter Subject 4 marks : 20

Enter Subject 5 marks : 10

Enter Subject 1 marks : 30

Enter Subject 2 marks : 70

Enter Subject 3 marks : 60

Enter Subject 4 marks : 80

Enter Subject 5 marks : 90

Enter Subject 1 marks : 70

Enter Subject 2 marks : 40

Enter Subject 3 marks : 20

Enter Subject 4 marks : 80

Enter Subject 5 marks : 10

CIE :

Subject 1 marks : 30

Subject 2 marks : 50

Subject 3 marks : 40

Subject 4 marks : 20

Subje 5 marks : 10

SEE :
   Sub   1 marks : 30
   Sub   2 marks : 70
   Sub   3 marks : 80
   Sub 4 marks : 80
   Sub   5 marks : 30

CIE :
___

Sub   1 mark = 70

Sub   2 mark : 80

Sub   3 mark : 70

Sub   4 mar : 70
Sub   5 marks : 20

STEF
___

Sub   1 mark : 80

Sub 2 mark : 60

Sub 3 mark : 70

Sub 4 mark : 80

Sub 5 marks : 30