//Student.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 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 student semester");

sem=sc.nextInt();

}

public void displayStudentDetails() {

System.out.println("student usn:"+ usn);

System.out.println("student name:"+n ame);

System.out.println(" student sem:"+ sem);

}

}

//Internals.java

package CIE;

import java.util.Scanner;

public class Internals extends Student {

protected int marks[] = new int[5];

public void inputCIEmarks()

{

Scanner sc=new Scanner(System.in);

for (int i=0;i<5;i++)

{

System.out.println("Enter 5 subject marks");

marks[i]=sc.nextInt();

}

}

}

//Externals.java

package SEE;

import CIE.Internals;

import java.util.Scanner;

public class Externals extends Internals {

protected int marks[];

protected int finalMarks[];

public Externals() {

marks = new int[5];

finalMarks = new int[5];

}

public void inputSEEmarks()

{

Scanner sc = new Scanner(System.in);

for(int i=0;i<5;i++)

{

System.out.print("Subject "+(i+1)+" marks: ");

marks[i] = sc.nextInt();

}

}

public void calculateFinalMarks() {

for(int i=0;i<5;i++)

finalMarks[i] = marks[i]/2 + super.marks[i];

}

public void displayFinalMarks() {

displayStudentDetails();

for(int i=0;i<5;i++)

System.out.println("Subject " + (i+1) + ": " + finalMarks[i]);

}

}

//Main1.java

import SEE.Externals;

class Main1 {

public static void main(String args[])

{

int numOfStudents = 2;

Externals finalMarks[] = new

Externals[numOfStudents];

for(int i=0;i<numOfStudents;i++)

{

finalMarks[i] = new Externals();

finalMarks[i].inputStudentDetails();

System.out.println("Enter CIE marks");

finalMarks[i].inputCIEmarks();

System.out.println("Enter SEE marks");

finalMarks[i].inputSEEmarks();

}

System.out.println("Displaying data:\n");

for(int i=0;i<numOfStudents;i++)

{

finalMarks[i].calculateFinalMarks();

finalMarks[i].displayFinalMarks();

} //end of for loop

} // end of public main

} //end of class main

OUTPUT-



