JAVA LAB PROGRAM 6

package CIE;

import java.util.Scanner;

public class Student {

protected String usn;

protected String name;

protected int sem;

public void getdetails() {

Scanner input = input Scanner(System.in);

System.out.println("Enter USN: ");

this.usn = input.nextLine();

System.out.println("Enter Name: ");

this.name = input.nextLine();

System.out.println("Enter Semester: ");

this.sem = input.nextInt();

}

public void displaydetails() {

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 {

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

public void getCIEmarks() {

Scanner input = new Scanner(System.in);

System.out.println("Enter Internal Marks: ");

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

System.out.print("Course marks: ");

marks[i] = input.nextInt();

}

}

public void displayCIEmarks() {

System.out.println("Internal Marks: ");

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

System.out.println(marks[i]);

}

}

}

package SEE;

import CIE.Internals;

import java.util.Scanner;

public class Externals extends Internals {

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

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

public Externals() {

externalmarks = new int[5];

finalmarks = new int[5];

}

public void getSEEmarks() {

Scanner input= new Scanner(System.in);

System.out.println("Enter External Marks for 5 courses: ");

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

System.out.print("Course: ");

externalmarks[i] = input.nextInt();

}

}

public void calculateFinalMarks() {

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

finalmarks[i] = marks[i] + externalmarks[i];

}

}

public void displayFinalMarks() {

getdetails();

displayCIEmarks();

System.out.println("External Marks: ");

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

System.out.println(externalmarks[i]);

}

System.out.println("Final Marks: ");

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

System.out.println(finalmarks[i]);

}

}

}

import SEE.Externals;

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

System.out.print("Enter number of students: ");

int n = input.nextInt();

Externals[] students = new Externals[n];

for (int i = 0; i < n; i++) {

students[i] = new Externals();

students[i].getdetails();

students[i].getCIEmarks();

students[i].getSEEmarks();

students[i].calculateFinalMarks();

}

for (int i = 0; i < n; i++) {

students[i].displayFinalMarks();

}

}

}

OUTPUT

