**Week 9—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]);

}

}

}

}







