Create a package CIE which has two classes- Student and Internals. The class

Personal has members like usn, name, sem. The class internals has an array

that stores the internal marks scored in five courses of the current semester of

the student. Create another package SEE which has the class External which

is a derived class of Student. This class has an array that stores the SEE

marks scored in five courses of the current semester of the student. Import the

two packages in a file that declares the final marks of n students in all five

courses.

package cie;

public class Internals {

public int internal[]=new int[5];

}

package cie;

public class Student {

public String name;

public int usn;

public int sem;

}

package see;

import cie.Internals;

public class External extends Internals {

public int external[]=new int[5];

}

import java.util.Scanner;

import cie.Internals;

import see.External;

public class Marks {

public static void main(String[] args) {

int n;

Scanner sc=new Scanner(System.in);

System.out.println("enter number of students");

n=sc.nextInt();

External student[]=new External[n];

Internals internal[]=new Internals[n];

int final\_marks[][]=new int[n][5];

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

{

student[i]=new External();

internal[i]=new Internals();

System.out.println("Enter Student "+(i+1)+" name and usn and sem respectively");

student[i].name=sc.next();

student[i].usn=sc.next();

student[i].sem=sc.nextInt();

System.out.println("Enter Internal marks of 5 subject in respective order");

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

{

internal[i].internal\_marks[j]=sc.nextInt();

}

System.out.println("Enter external marks of 5 subject in respective order");

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

{

student[i].external[k]=sc.nextInt();

}

}

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

{

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

final\_marks[i][j]=internal[i].internal\_marks[j]+(int)(student[i].external[j]/2);

}

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

{

System.out.println("Name: "+student[i].name);

System.out.println("USN: "+student[i].usn);

System.out.println("Sem: "+student[i].sem);

System.out.println("Marks of the student "+(i+1)+" is");

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

{

System.out.println(final\_marks[i][j]);

}

}

}

}

