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**LAB PROGRAM – 6**

QUESTION:

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.

CODE:

1. Student.java

package CIE;

import java.util.Scanner;

public class Student

{

public String name;

public String usn;

public int sem;

public void display()

{

Scanner s=new Scanner(System.in);

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

name=s.nextLine();

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

usn=s.nextLine();

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

sem=s.nextInt();

}

}

1. Internals.java

package CIE;

import java.util.Scanner;

public class Internals extends Student

{

public double cie[];

public void display()

{

cie=new double[5];

Scanner sc=new Scanner(System.in);

System.out.println("The CIE marks for 5 subjects(out of 50) are: \n");

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

{

cie[i]=sc.nextDouble();

}

}

}

1. Externals.java

package SEE;

import java.util.\*;

import CIE.\*;

public class Externals extends CIE.Student

{

public double see[];

public void display()

{

see=new double[5];

Scanner s=new Scanner(System.in);

System.out.println("The SEE Marks for the 5 subjects(out of 100) are: \n");

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

{

see[i]=s.nextDouble();

}

}

}

1. Main.java

import CIE.\*;

import SEE.\*;

import java.util.Scanner;

public class Main

{

public static void main(String args[])

{

int n;

Scanner s=new Scanner(System.in);

System.out.println("Enter the number of students:\n");

n=s.nextInt();

CIE.Student st[]=new CIE.Student[n];

CIE.Internals in[]=new CIE.Internals[n];

SEE.Externals ex[]=new SEE.Externals[n];

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

{

st[i]=new CIE.Student();

in[i]=new CIE.Internals();

ex[i]=new SEE.Externals();

st[i].display();

in[i].display();

ex[i].display();

System.out.println("The Total marks of the student "+st[i].name+ " in the 5 subjects are: \n");

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

{

System.out.println(in[i].cie[j]+(ex[i].see[j]/2));

}

}

}

}

OUTPUT:





