

System.out.println("Enter details of student");
name = S.next();
sem = S.nextInt();

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public void displayStudentDetails() {
System.out.println("Name: " + name
+ " An OSN " + usn
+ " In sem: " + sem);

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Intervals.java

Package IDE;
import java.util.Scanner;

public class Intervals extends Student {
protected int marks[] = new int[5];
public void infoOfMarks()
{
Scanner s = new Scanner(System.in);
System.out.println("Enter marks of
student");
for (int i = 0; i < 5; i++)

marks[i] = s.nextInt();

External.java

Package SEE;

import CIE.Intervals;

import java.util.Scanner;

public External Class External extends Intervals {
protected int marks[];
protected final marks[];

public External () {

marks = new int[5];

final marks = new int [5];

public void input SEE marks () {

Scanner s = new Scanner (System.in);

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

{

System.out.println ("Subject "+(i+1) +
" Marks");

marks[i] = s.nextInt();

}

o Create a package called maths having a class number (add & subtract method). Implement a simple class called Maths Demo to use maths (inside package maths) that makes use of package provided by maths.

O Create a package CIE which has two classes Student and Internals. The class student has members like usn, name, sem. The class internals derived from student has an array that stores SET marks scored in five courses of the current semester of the student. Import the two packages in student to all five courses.

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 s = new
Scanner (System.in);

Subject 1 marks : 72

Subject 2 marks : 74

Environ. marks

Subject 1 marks : 68

Subject 2 marks : 75

Subject 3 marks : 87

Subject 4 marks : 94

Subject 5 marks : 88

Displaying data:

~~elect~~ Subject 1 marks : 81

Subject 2 marks : 82

Subject 3 marks : 92

Subject 4 marks : 92

Subject 5 marks : 88

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Date
24-1-20

```
public void calculate Final Marks () {  
    for (int i=0 ; i<5 ; i++)
```

$$\text{final Marks}[i] = \text{marks}[i] / 2$$

+ Subject marks

```
public void display Final Marks () {
```

```
    display Student Details ();
```

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

```
        System.out.println ("Subject " +  
            (i+1) + ":" +
```

final Marks [i]);

System.

Main.java

```
import SGB.External;
```

```
Class main
```

```
public static void main (String args[]) {
```

```
    int num of Students = 2;
```

External final Marks [] = new External (num of Students)

```
for (int i=0 ; i< num of Students ; i++)
```

final Marks [i] = new External [2];

Output

Enter

Enter

Enter

Enter

Enter

Subject

Subj

Subj

final Marks [i]; input student Details();
System.out.println ("Enter CIE marks");
Finalmarks[i] = input.readLine();
System.out.println ("Enter GE marks");
Finalmarks[i] = input.readLine();
System.out.println ("Enter SGE marks");
Finalmarks[i] = input.readLine();
}

System.out.println ("Displaying data: ");
for (int i=0; i< numofStudent; i++)
{
 finalMarks[i].CalculateFinalMarks();
 finalMarks[i].displayFinalMarks();
}

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Output

Enter USN : 18M22CS235

Enter Name : Samarth

Enter semester : 2

Enter CIE marks

Enter Internal marks

Subject 1 marks : 47

Subject 2 marks : 99

Subject 3 marks : 48