
OOPM - PRACTICAL EXAM.

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D6AD / 47.

AIM: Write a JAVA program for class Student, accept the name, roll no., marks of three subjects, calculate total, and display the complete information.

Program:

Main.java

```
package com.sarang;

import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Student s1 = new Student();

        Scanner sc = new Scanner(System.in); //Creating an object sc to take input from the user.

        System.out.print("Enter your name : ");
        String a = sc.nextLine();
        System.out.print("Enter your Roll No. : ");
        int b = sc.nextInt();
        System.out.print("Enter marks obtained in three subjects : ");
        int a1 = sc.nextInt();
        int a2 = sc.nextInt();
        int a3 = sc.nextInt();
        s1.InputInfo(a, b);
        s1.marks(a1, a2, a3);
        s1.total();
        s1.display();
    }
}
```

Student.java

```
package com.sarang;

import java.util.Scanner;

class Student
{
    String name;
    int rollno;
    int subject1_marks;
    int subject2_marks;
    int subject3_marks;
    int total;

    void InputInfo(String n, int r)
    {
        name = n;
        rollno = r;
    }

    void marks(int m1,int m2,int m3)
    {
        subject1_marks = m1;
        subject2_marks = m2;
        subject3_marks = m3;
    }

    void total() { total = subject1_marks + subject2_marks + subject3_marks; }

    void display()
    {
        System.out.println("The information of the student is as follows:");
        System.out.println("Name : " + name);
        System.out.println("Roll No.: " + rollno);
        System.out.println("Marks in Subject 1: " + subject1_marks);
        System.out.println("Marks in Subject 2: " + subject2_marks);
        System.out.println("Marks in Subject 3: " + subject3_marks);
        System.out.println("Total Marks : " + total + "/300");
    }
}
```

Theory:

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We have created a package called `com.sarang` in which we have created 2 different classes. A main in which our execution takes place and a class named `Student` in which we store the data of the Student & create its object.

In the student class, we have defined a String name and 5 integers `rollno`, `marks1`, `mark2`, `mark3`, and `total` to store the data of the Student object.

We have also defined 4 methods,

- i) `Input-Info` - to initialize name & roll no,
- ii) `marks` - to initialize marks of the student,
- iii) `total` - to calculate & store the total marks of the student
- iv) `display` - which displays us, all the information of the student from name, roll no to the total.

In the `main.java` file, we first import the `Scanner` class from `java.util` and basic modules from `java.lang`.

Later, we create a public static void main method in our Main class through which the execution of our code starts.

We first create a Scanner object named sc and then create a new object of Student class named s1.

Using the nextLine, nextInt methods from the Scanner class we input the data of the Student.

At last, we call InputInfo, marks and total methods of our Student class to store and initialise the data of the student.

We can then, display the data of our student object through in the command line through the display() method.

OUTPUT:


```
Enter your name : Yash Sarang.  
Enter your Roll No. : 69  
Enter marks obtained in three subjects : 96  
98  
99  
The information of the student is as follows:  
Name : Yash Sarang.  
Roll No.: 69  
Marks in Subject 1: 96  
Marks in Subject 2: 98  
Marks in Subject 3: 99  
Total Marks : 293/300  
  
Process finished with exit code 0
```
