

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 14****Name : Swetha Prakash****Roll No : 46****Batch : B****Date : 17-05-22****Aim**

Create classes Student and Sports. Create another class Result inherited from Student and Sports. Display the academic and sports score of a student.

**Source Code**

```
import java.util.*;
import java.io.*;

interface Sports {
    public void sports_getData();

    public void sports_dispData();
}

class Student {
    String name;
    int roll_no;
    float mark1, mark2;

    Student(String n, int r, float m1, float m2) {
        name = n;
        roll_no = r;
        mark1 = m1;
```

```
        mark2 = m2;
    }

    void display() {
        System.out.println("\n****Student Details****");
        System.out.println("Name of the Student : " + name);
        System.out.println("Roll No. of the Student : " + roll_no);
        System.out.println("Marks of Subject 1 : " + mark1);
        System.out.println("Marks of Subject 2 : " + mark2);
    }
}
```

```
class Result extends Student implements Sports {
    int r;
    String item;
    Scanner sc = new Scanner(System.in);

    Result(String n, int r, float m1, float m2) {
        super(n, r, m1, m2);
    }

    public void academic() {
        float total = (mark1 + mark2);
        float percent = total * 100 / 200;
        System.out.println("\n----Academic Info----");
        System.out.println("Percentage : " + percent + "%");
    }

    public void sports_getData() {
```

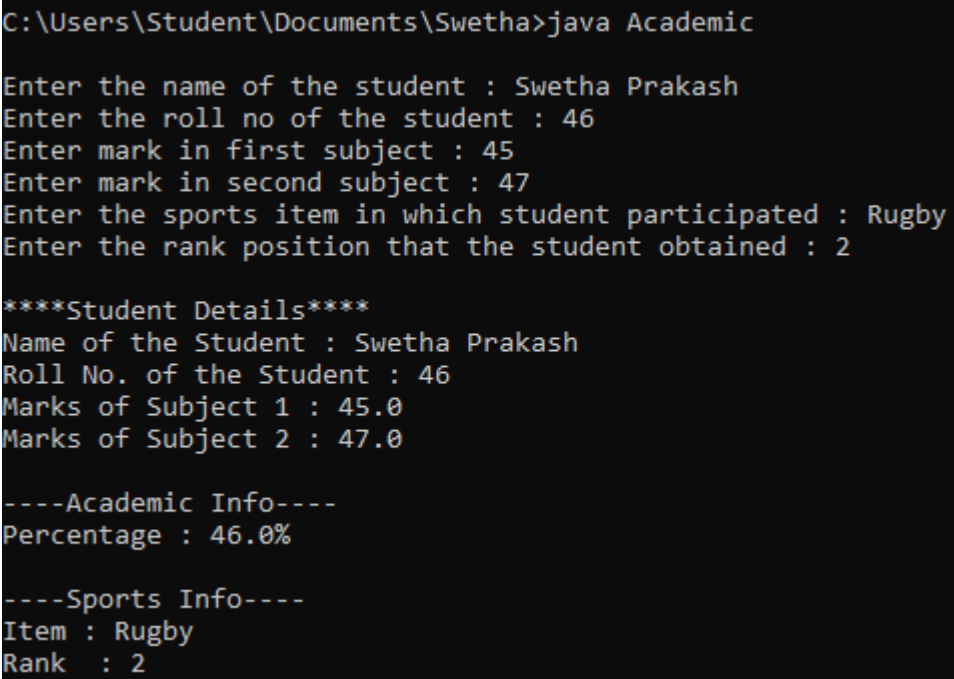
```
    System.out.print("Enter the sports item in which student participated : ");  
    item = sc.nextLine();  
    System.out.print("Enter the rank position that the student obtained : ");  
    r = sc.nextInt();  
}
```

```
public void sports_dispData() {  
    System.out.println("\n----Sports Info----");  
    System.out.println("Item : " + item);  
    System.out.println("Rank : " + r);  
}  
}
```

```
class Academic {  
    public static void main(String args[]) throws IOException {  
        InputStreamReader isr = new InputStreamReader(System.in);  
        BufferedReader br = new BufferedReader(isr);  
        System.out.print("\nEnter the name of the student : ");  
        String n = br.readLine();  
        System.out.print("Enter the roll no of the student : ");  
        int roll = Integer.parseInt(br.readLine());  
        System.out.print("Enter mark in first subject : ");  
        float m1 = Float.parseFloat(br.readLine());  
        System.out.print("Enter mark in second subject : ");  
        float m2 = Float.parseFloat(br.readLine());  
        Result re = new Result(n, roll, m1, m2);  
        re.sports_getData();  
        re.display();  
        re.academic();  
    }  
}
```

```
        re.sports_dispData();  
    }  
}
```

### Output Screenshot



```
C:\Users\Student\Documents\Swetha>java Academic  
  
Enter the name of the student : Swetha Prakash  
Enter the roll no of the student : 46  
Enter mark in first subject : 45  
Enter mark in second subject : 47  
Enter the sports item in which student participated : Rugby  
Enter the rank position that the student obtained : 2  
  
****Student Details****  
Name of the Student : Swetha Prakash  
Roll No. of the Student : 46  
Marks of Subject 1 : 45.0  
Marks of Subject 2 : 47.0  
  
----Academic Info----  
Percentage : 46.0%  
  
----Sports Info----  
Item : Rugby  
Rank : 2
```