**Name: RITTYMARIYA K R**

**Roll No:28**

**Batch: MCA B**

**Date: 30/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 14**

**Aim**

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

**Procedure**

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("Student Details");

        System.out.println("Name of Student: " + name);

        System.out.println("Roll No. of 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("\_\_\_Academic Info\_\_\_");

        System.out.println("Percentage: " + percent + "%");

    }

    public void sports\_getData() {

        System.out.print("Enter the sports item which student participated : ");

        item = sc.nextLine();

        System.out.print("Enter the rank position that the obtained : ");

        r = sc.nextInt();

    }

    public void sports\_dispData() {

        System.out.println("\_\_\_\_sports Info\_\_\_\_");

        System.out.println("Item :" + item);

        System.out.println("Rank  :" + r);

    }

}

class SportsResult {

    public static void main(String args[]) throws IOException {

        InputStreamReader isr = new InputStreamReader(System.in);

        BufferedReader br = new BufferedReader(isr);

        System.out.print("Enter the name : ");

        String n = br.readLine();

        System.out.print("Enter roll no : ");

        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();

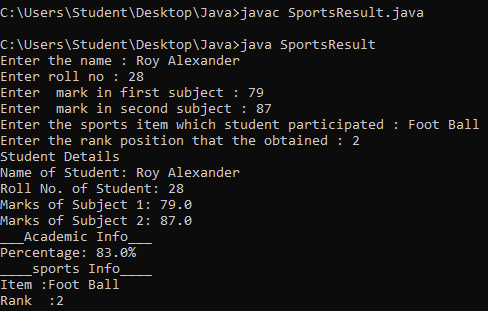
        re.academic();

        re.sports\_dispData();

    }

}

**Output Screenshot**

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