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| **Name : upas nath**  **Roll No : 47**  **Batch : B**  **Date : 17-05-22** |

**OBJECT ORIENTED PROGRAMING 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.

**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

