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**Batch: S2 MCA**

**Date:18/05/2022**

**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("\n\_\_\_\_\_\_\_\_\_\_\_Student Details\_\_\_\_\_\_\_\_\_\_\n");

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("\n\_\_\_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("\n\_\_\_\_sports Info\_\_\_\_");

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

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

}

}

class Stdsports

{

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**

