**Name: Malavika A**

**Roll No: 16**

**Batch: RMCA B**

**Date: 23/05/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 5**

**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.Scanner;

class Student {

int Studid;

String Name;

int mark1;

int mark2;

Student(int no, String na, int m1, int m2) {

this.Studid = no;

this.Name = na;

this.mark1 = m1;

this.mark2 = m2;

}

}

class Sports extends Student{

String Item;

String Score;

Sports( int no, String na, int m1, int m2,String I, String Sc){

super(no,na,m1,m2);

this.Item= I;

this.Score=Sc;

}

}

class Result extends Sports{

Result( int no, String na, int m1, int m2,String I, String Sc){

super(no,na,m1,m2,I,Sc);

}

void display(){

System.out.println("Student id: "+Studid);

System.out.println("Name: "+Name);

System.out.println("Mark1: "+mark1);

System.out.println("Mark2: "+mark2);

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

System.out.println("Score: "+Score);

}

public static void main(String[] args) {

System.out.println("\nEnter the No. of Students");

Scanner sc1 = new Scanner(System.in);

int num = sc1.nextInt();

Result arr[]=new Result[num];

for(int i =0;i<num;i++)

{

Scanner sc =new Scanner(System.in);

System.out.println("\nEnter Student id: ");

int Studid=sc.nextInt();

System.out.println("\nEnter Student Name: ");

String Name=sc.next();

System.out.println("\nEnter Mark1: ");

int mark1=sc.nextInt();

System.out.println("\nEnter Mark2: ");

int mark2=sc.nextInt();

System.out.println("\nEnter Sports Item: ");

String Item=sc.next();

System.out.println("\nEnter Score: ");

String Score=sc.next();

arr[i]=new Result(Studid,Name,mark1,mark2,Item,Score);

}

System.out.println("\n\*\*\*\*\*\*\*\*Informations of all the Students\*\*\*\*\*\*\*\*\*\*\*\*");

for(int i=0;i<num;i++){

int j=i+1;

System.out.println("\n"+j+").");

arr[i].display();

}

sc1.close();

}

}

**OUTPUT**

