OBJECT-ORIENTED PROGRAMMING LAB

Name: VYSHNAVI BABU S

Roll No: 55

Batch: MCA - B

Date: 27-05-2022

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.

Program

```java
import java.util.*;
 class Student
{
   String name;
   String gender;
   int no_subject;
   int mark;
   Scanner sc=new Scanner(System.in);
 public Student()
{
  System.out.println("ENTER THE DETAILS");
  System.out.println("enter the name");
  name = sc.next();
  System.out.println("enter the gender");
  gender = sc.next();
  System.out.println("enter the no_subject");
  no_subject = sc.nextInt();
  System.out.println("enter the mark");
  mark = sc.nextInt();
```

```java
}
}
class Sports extends Student
{
    int student_id;
    String item_name;
    int score;
  Scanner em= new Scanner(System.in);
  public Sports()
   {
   System.out.println("enter the chest number");
   student_id = em.nextInt();
   System.out.println("enter the item name");
  item_name = em.next();
   System.out.println("enter score");
   score = em.nextInt();
   }
}
class Result extends Sports
{
    int sum;
    public Result()
    {
     sum =score + mark;
    System.out.println("emter the details of student");
    }
    public void display1()
    {
  System.out.println("------Student details-------");
```

```java
System.out.println("The name:"+name);

System.out.println("The gender:"+gender);

System.out.println("The nosubject:"+no_subject);

System.out.println("The mark obtained:"+mark);

System.out.println("chest number :"+student_id);

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

System.out.println("score of sports:"+score);

System.out.println("total points is : "+sum);
}
}
public class Mark
{
  public static void main(String[] args)
   {
   Scanner tr = new Scanner(System.in);
   int i;
   System.out.println("Enter number of student: ");
   int n=tr.nextInt();
   Result t[]=new Result[n];
   for(i=0;i<n;i++)
   {
     t[i]=new Result();
   }
   for(i=0;i<n;i++)
   {
   t[i].display1();
   }
    }
   }
```

Output Screenshot

```
Microsoft Windows [Version 10.0.19044.1706]
(c) Microsoft Corporation. All rights reserved.

D:\>javac Mark.java

D:\>java Mark
Enter number of student:
2
ENTER THE DETAILS
enter the name
arun
enter the gender
male
enter the no_subject
1
enter the mark
25
enter the chest number
2
enter the item name
race
enter score
30
emter the details of student
ENTER THE DETAILS
enter the name
devi
enter the gender
female
enter the no_subject
1
enter the mark
23
enter the chest number
3
enter the item name
relay
enter score
40
emter the details of student
------Student details-------
The name:arun
The gender:male
The nosubject:1
The mark obtained:25
chest number :2
```

```
enter the mark
25
enter the chest number
2
enter the item name
race
enter score
30
emter the details of student
ENTER THE DETAILS
enter the name
devi
enter the gender
female
enter the no_subject
1
enter the mark
23
enter the chest number
3
enter the item name
relay
enter score
40
emter the details of student
------Student details-------
The name:arun
The gender:male
The nosubject:1
The mark obtained:25
chest number :2
item_name:race
score of sports:30
total points is : 55
------Student details-------
The name:devi
The gender:female
The nosubject:1
The mark obtained:23
chest number :3
item_name:relay
score of sports:40
total points is : 63
```