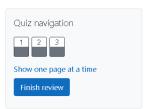
## CS23333-Object Oriented Programming Using Java-2023

Correct

Marked out of

₱ Flag question







Question 2

create an interface Playable with a method play() that takes no arguments and returns void. Create three classes Football, Volleyball, and Basketball that implement the Playable interface and override the play() method to play the respective sports.

Marked out of 5.00

```
interface Playable {
    void play();
}

class Football implements Playable {
    String name;
    public Football(String name){
        this.name=name;
    }
    public void play() {
        System.out.println(name+" is Playing football");
    }
}

Similarly, create Volleyball and Basketball classes.

Sample output:
Sadhván is Playáng football
Sanday is Playáng football
Sanday is Playáng vollayball
Sruthi is Playáng basketball

For example:
```

Test	Input	Result
1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball
2	Vijay Arun Balaji	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball

Answer: (penalty regime: 0 %)

```
1 v import java.util.*;
2 v interface playable{
3 void play();
    5 - class football implements playable{
                String name;
public football(String name){
                     this.name=name;
               public void play(){
    System.out.println(name+" is Playing football");
   10
   11
   12
   14 v class volleyball implements playable{
                String name;
public volleyball(String name){
    this.name=name;
   15
   16
17
   18
19
                public void play(){
                      System.out.println(name+" is Playing volleyball");
   20
   21
   22
          class basketball implements playable{
   23
                String name;
public basketball(String name){
   24
   25
   26
27
                      this.name=name;
   28
                public void play(){
   29
30
                      System.out.println(name+" is Playing basketball");
   31
32
         }
class prog{
   public static void main(string args[]){
        Scanner scn=new Scanner(System.in);
        football f=new football(scn.next());
        volleyball v=new volleyball(scn.next());
        basketball b=new basketball(scn.next());
        f.olay();
  33
34
35
36
37
                      f.play();
v.play();
   38
   40
41
                      b.play();
   42
```

✓ 1 Sadhvin Sadhvin is Playing football Sadhvin is Playing football ✓
Sanjay Sanjay is Playing volleyball Sanjay is Playing volleyball Sruthi Sruthi is Playing basketball Sruthi is Playing basketball
✓       2       Vijay       Vijay is Playing football       Vijay is Playing football       ✓         Arun       Arun is Playing volleyball       Arun is Playing volleyball       Arun is Playing volleyball         Balaji       Balaji is Playing basketball       Balaji is Playing basketball

## Question 3

Correct Marked out of 5.00

▼ Flag question

```
Create interfaces shown below.

interface Sports {
  public void setHomeTeam(String name);
  public void setVisitingTeam(String name);
  }
  interface Football extends Sports {
  public void homeTeamScored(int points);
```

product votal visiting realisecreacing points), a create a class College that implements the Football interface and provides the necessary functionality to the abstract methods.

Rajalakshmi

Saveetha

22 21

Output:

Rajalakshmi 22 scored

Saveetha 21 scored

Rajalakshmi is the Winner!

## For example:

Test Input		Result		
1	Rajalakshmi Saveetha	Rajalakshmi 22 scored Saveetha 21 scored		
	22	Rajalakshmi is the winner!		
	21			

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
1 | import java.util.Scanner;
2 | interface Sports {
3     public void setHomeTeam(String name);
4     public void setVisitingTeam(String name);
        interface Football extends Sports {
public void homeTeamScored(int points);
public void visitingTeamScored(int points);
10
12 - class College implements Football {
13 String homeTeam;
14
15
               String visitingTeam;
               public void setHomeTeam(String name){
17
                        this.homeTeam=name;
        public void setVisitingTeam(String name){
19
                   this.visitingTeam=name;
21
       public void homeTeamScored(int points){
   System.out.println(homeTeam+" "+points+" scored");
23
       public void visitingTeamScored(int points){
   System.out.println(visitingTeam+" "+points+" scored");
}
24
25
26
27
28 s
       public void winningTeam(int p1, int p2){
               if(plyp2)
| System.out.println(homeTeam+" is the winner!");
else if(pl<p2)</pre>
29
30
31
                     System.out.println(visitingTeam+" is the winner!");
32
34
35
                       System.out.println("It's a tie match.");
36
37
38
39
        }
class prog{
   public static void main(String[] args){
        String hname;
        Scanner sc= new Scanner(System.in);
        hname=sc.next();
        string vteam=sc.next();
        int htpoints=sc.nextInt();
        int vtpoints=sc.nextInt();
        college s= new College();
        s.setNumeTeam(hname);
40
41
42
43
44
45
47
48
                s.setHomeTeam(hname);
               s.setVisitingTeam(vteam);
s.homeTeamScored(htpoints);
49
50
51
52
               s. visitingTeamScored(vtpoints);
s.winningTeam(htpoints,vtpoints);
```

	Test	Input	Expected	Got	
~	1	Rajalakshmi Saveetha 22 21	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	~
~	2	Anna Balaji 21	Anna 21 scored Balaji 21 scored It's a tie match.	Anna 21 scored Balaji 21 scored It's a tie match.	~
~	3	SRM VIT 20 21	SRM 20 scored VIT 21 scored VIT is the winner!	SRM 20 scored VIT 21 scored VIT is the winner!	~

Passed all tests! 🗸