REC-CIS An MITHESH THARUN S 2023-CSE-C M2 V

CS23333-Object Oriented Programming Using Java-2023

Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-07-Interfaces / Lab-07-Logic Building

Quiz navigation

Show one page at a time

Question Correct Marked or 5.00

```
Started Monday, 7 October 2024, 5:25 PM
           Completed Monday, 7 October 2024, 5:39 PM
Question 1
                         Create interfaces shown below.
                           interface Sports {
                           public void setHomeTeam(String name):
                           public void setVisitingTeam(String name);
₹ Flag question
                            interface Football extends Sports {
                          public void home TeamScored(int points);
public void visiting TeamScored(int points);
create a class College that implements the Football interface and provides the necessary functionality to the abstract methods.
                           sample Input:
                           Raialakshmi
                           Saveetha
22
                           21
                          Output:
                           Rajalakshmi 22 scored
                           Saveetha 21 scored
Rajalakshmi is the Winner
                            Test Input Result
                           1 Rajalakshmi Rajalakshmi 22 scored
Saweetha Saweetha 21 scored
22 Rajalakshmi is the winner:
21
                           Answer: (penalty regime: 0 %)
                            Reset answer
                               1 - import java.util.Scanner;
                                       interface Sports {
   public void setHomeTeam(String name);
   public void setVisitingTeam(String name);
}
                                      interface Football extends Sports {
   public void homeTeamScored(int points);
   public void visitingTeamScored(int points);
}
                                       class College implements Football {
```

Tes	st 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!	~

Question 2
Correct
Marked out of 5.00
F Flag question

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.

```
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"):
}
```

interface Playable {

```
Similarly, create Volleyball and Basketball classes
Sample output:
Sadhvin is Playing football
Sanjay is Playing volleyball
Sruthi is Playing basketball
For example:
 Test Input Result
 1 Sadhvin Sadhvin is Playing football Sanjay Sanjay is Playing volleyball Sruthi Sruthi is Playing basketball
2 Vijay Vijay is Playing football
Arun Arun is Playing volleyball
Balaji Balaji is Playing basketball
Answer: (penalty regime: 0 %)
```

```
import java.util.*;
interface Playable {
                                        void play();
}
             7 v class Football implements Playable {
8 String name:
6
8 String name;
9 public football(String name) {
11 this.name = name;
12 }
13 gOverride
15 public void play() {
16 System.out.println(name + " is P
17 }
18 }
19
20 class Volleyball implements Playable {
21 String name;
22 public Volleyball(String name) {
22 this.name = name;
23 public Volleyball(String name) {
25 this.name = name;
26 gOverride
27 gOverride
28 public volleyball(String name) {
26 system.out.println(name + " is P
27 gOverride
28 public volleyball(String name) {
29 System.out.println(name + " is P
30 }
31 }
32 class Basketball implements Playable {
34 String name;
35 public Basketball(String name) {
36 this.name = name;
37 this.name = name;
38 }
39 gOverride
40 gOverride
41 public void play() {
42 System.out.println(name + " is P
43 }
44 }
45 public class Main {
46 public void play() {
47 public static void main(String[] arg
48 Scamer sc-enes Scamer(System.in
49 Scamer sc-enes Scamer(System.in
49 Scamer sc-enes Scamer(System.in
49 Scamer sc-enes Scaner(System.in
40 Scamer sc-enes Scaner(System.in
41 Scaner sc-enes Scaner(System.in
42 String name;
43 System.out.println(name + " is P
44 String name;
45 System.out.println(name + " is P
46 System.out.println(name + " is P
47 System.out.println(name + " is P
48 Scaner sc-enes Scaner(System.in
49 System.out.println(name + " is P
40 System.out.println(name + " is P
41 System.out.println(name + " is P
42 System.out.println(name + " is P
43 System.out.println(name + " is P
44 System.out.println(name + " is P
45 System.out.println(name + " is P
46 System.out.println(name + " is P
47 System.out.println(name + " is P
48 Scaner sc-enes Scaner(System.in
49 System.out.println(name + " is P
40 System.out.println(name + " is P
41 System.out.println(name + " is P
42 System.out.println(name + " is P
43 System.out.println(name + " is P
44 System.out.println(name + " is P
45 System.out.println(name + " is P
46 System.out.println(name + " is P
47 System.out.println(name + " is P
48 System.out.println(name + " is P
49 System.out.println(name + " is P
40 System.out.print
                                        gOverride
public void play() {
    System.out.println(name + " is Playing football");
}
                                                                    @Override
public void play() {
    System.out.println(name + " is Playing volleyball");
}
                                                                    @Override
public void play() {
    System.out.println(name + " is Playing basketball");
                                           public class Main {
   public static void main(String[] args) {
        Sanner (System.in);
        Sanner sc-new Scanner (System.in);
        String s1=sc.nextLine(),s2=sc.nextLine(),s3=sc.nextLine();
        Football footballPlayer = new Football(s1);
        Volleyball volleyballPlayer = new Volleyball(s2);
        Basketball basketballPlayer = new Basketball(s3);
    }
}
```

```
Test Input Expected

    Sadhvin Sadhvin is Playing football Sadhvin is Playing football Sanjay is Playing volleyball Sanjay is Playing volleyball Sruthi Sruthi is Playing basketball Sruthi is Playing basketball
 ✓ 2 Vijay Vijay is Playing football Arun is Playing volleyball Arun is Playing volleyball Arun is Playing volleyball Balaji is Playing basketball
Passed all tests! ✓
```

Question 3 Marked out of 5.00 ₹ Flag question RBI issues all national banks to collect interest on all customer loans.

Create an RBI interface with a variable String parentBank="RBI" and abstract method rateOfInterest().

RBI interface has two more methods default and static method.

default void policyNote() {

System.out.println("RBI has a new Policy issued in 2023.");

static void regulations(){

System.out.println("RBI has updated new regulations on 2024.");

Create two subclasses SBI and Karur which implements the RBI interface. Provide the necessary code for the abstract method in two sub-classes.

Sample Input/Output:

RBI has a new Policy issued in 2023 RBI has updated new regulations in 2024.
SBI rate of interest: 7.6 per annum.
Karur rate of interest: 7.4 per annum.

For example:

Test Result RBI has a new Policy issued in 2023
RBI has updated new regulations in 2024.
SBI rate of interest: 7.6 per annum.
Karur rate of interest: 7.4 per annum.

```
Answer: (penalty regime: 0 %)
```

```
1
2 * 3
3 4
5 6
6 7
8 9 * 10
11
12
13 14 * 15
16
17 18
19 * 20
20
              interface RBI {
   String parentBank = "RBI";
                   double rateOfInterest();
                default void policyNote() {
    System.out.println("RBI has a new Policy issued in 2023");
                 static void regulations() {
    System.out.println("RBI has updated new regulations in 2024.");
             class SBI implements RBI {
    @Override
    public double rateOfInterest() {
```

Finish review

→ Lab-07-MCQ

Jump to...

Generate series and find Nth element -