REC-CIS



CS23333-Object Oriented Programming Using Java-2023

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Quiz navigation



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```
Status Finished
Started Sunday, 6 October 2024, 2:03 PM
Completed Sunday, 6 October 2024, 2:30 PM
Duration 27 mins 36 secs
```

Question 1 Correct 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 - interface RBI {
               String parentBank = "RBI";
               void 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.");
10
11
12
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15
       class SBI implements RBI {
   public void rateOfInterest() {
        System.out.println("SBI rate of interest: 7.6 per annum.");
16
17
18
19
20
21
         class Karur implements RBI {
   public void rateOfInterest() {
        System.out.println("Karur rate of interest: 7.4 per annum.");
}
22
23
24
25
26
27
         public class Main {
   public static void main(String[] args) {
        RBI sbi = new SBI();
        RBI karur = new Karur();
}
28
29
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31
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35
                       sbi.policyNote();
RBI.regulations();
sbi.rateOfInterest();
karur.rateOfInterest();
36
37 }
```

t Expected Got	
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. Karur rate of interest: 7.4 per annum.	ions in 2024. er annum.

Question 2 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);
  public void visitingTeamScored(int points);
  public void visitingTeamScored(int points);
  create a class College that implements the Football interface and provides the necessary functionality to the abstract methods.
  sample Input:
  Rajalakshmi
  Saveetha
  22
  21
  Output:
  Rajalakshmi 22 scored
```

Saveetha 21 scored Rajalakshmi is the Winner!

For example:

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

Answer: (penalty regime: 0 %)

```
Reset answer
```

```
interface Football extends Sports {
public void homeTeamScored(int points);
public void visitingTeamScored(int points);
 10
11
12
       class College implements Football {
              String homeTeam;
String visitingTeam;
 13
14
15
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17
              public void setHomeTeam(String name){
                  this.homeTeam=name;
 18
19
20
21
         public void setVisitingTeam(String name){
           this.visitingTeam=name;
22
23
24
25
         public void homeTeamScored(int points) {
    System.out.println(homeTeam+" "+points+" scored");
       public void visitingTeamScored(int points){
   System.out.println(visitingTeam+" "+points+" scored");
 26
27
         public void winningTeam(int p1, int p2){
   if(p1>p2)
   {
 28
29
 30
31
32
33
                    System.out.println(homeTeam + " is the winner!");
              }
else if(p1<p2)
 34
35
36
37
38
                     System.out.println(visitingTeam +" is the winner!");
39
40
41
42
                     System.out.println("It's a tie match.");
           ublic class Main{
   public static void main(String[] args){
      String hname;
      Scanner sc= new Scanner(System.in);
43 v p
44 v
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}
                      hname=sc.next();
             hname=sc.next();
String vteam=sc.next();
int htpoints=sc.nextInt();
int vtpoints=sc.nextInt();
College s= new College();
s.setHomeTeam(hname);
s.setVisitingTeam(vteam);
s.homeTeamScored(htpoints);
s.visitingTeamScored(vtpoints);
               s.winningTeam(htpoints,vtpoints);
sc.close();
```

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!

Question **3**Correct
Marked out of 5.00

Figure 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.
```

```
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:

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 is Playing volleyball
Balaji Balaji is Playing basketball
```

Answer: (penalty regime: 0 %)

```
1 import java.util.Scanner;
  3 - interface Playable {
           void play();
 7 - class Football implements Playable {
           String name;
10
11
12
           public Football(String name) {
           this.name = name;
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36
37
           class Volleyball implements Playable {
           String name;
           public Volleyball(String name) {
           this.name = name;
           class Basketball implements Playable {
           public Basketball(String name) {
                this.name = name;
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41
           42
43
44
45
46
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49
50
51
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53
54
55
56
57
       public class Main {
   public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        Playable[] players = new Playable[3];
                for (int i = 0; i < 3; i++) {
   String name = scanner.nextLine();
   if (i == 0) {
      players[i] = new Football(name);
   } else if (i == 1) {
      players[i] = new Volleyball(name);
   } else {
      players[i] = new Basketball(name);
   }
}</pre>
59
60
61
62
63
64
65
66
67
                 }
for(Playable player:players)
                      if(player !=null)
                     player.play();
}
 68
69
70 }
                  scanner.close();
```

Test	Input	Expected	Got
1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball	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	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball

Passed all tests!

■ Lab-07-MCQ

Finish review

Jump to...

Generate series and find Nth element ►