

Question 1

Correct

Marked out of 5.00

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);  
}
```

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

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```
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 {  
    String homeTeam;  
    String visitingTeam;  
    public void setHomeTeam(String name){  
        this.homeTeam = name;  
    }  
    public void setVisitingTeam(String name){
```

	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 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 2

Correct

Marked out of 5.00

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
1	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 %)

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```
interface RBI{
    String parentBnak="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{
    public double rateofInterest(){
        return 7.6;
    }
}
class Karur implements RBI{
    public double rateofInterest(){
        return 7.4;
    }
}
```

	Test	Expected	Got	
✓	1	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.	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.	✓

Passed all tests! ✓

Question **3**

Correct

Marked out of 5.00

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 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 %)

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```
import java.util.Scanner;
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");
    }
}

class Volleyball implements Playable{
    String name;
    public Volleyball(String name){
        this.name=name;
```

	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! ✓

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