CS23333-Object Oriented Programming Using Java-2023

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Status	Finished
Started	Saturday, 5 October 2024, 8:01 PM
Completed	Saturday, 5 October 2024, 8:19 PM
Duration	17 mins 12 secs

Question **1**

Correct

Marked out of 5.00

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 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 %)

```
import java.util.*;
interface p{
    void pl();
}
class f implements p{
    String name;
    public f(String n){
        this.name=n;
    }
    public void pl(){
        System.out.println(name+" is Playing football");
    }
}
class v implements p{
    String name;
    public v(String n){
        this.name=n;
    }
    public void pl(){
        System.out.println(name+" is Playing volleyball");
    }
}
class b implements p{
    String name;
    public b(String n){
        this.name=n;
    }
    public void pl(){
        System.out.println(name+" is Playing basketball");
    }
}
public class hello{
    public static void main(String[] args){
        Scanner sc=new Scanner(System.in);
        f f1=new f(sc.next());
        v v1=new v(sc.next());
        b b1=new b(sc.next());
        f1.pl();
        v1.pl();
        b1.pl();
    }
}
```

	Test	Input	Expected	Got	
✓	1	Sadhvin	Sadhvin is Playing football	Sadhvin is Playing football	✓

		Sanjay Sruthi	Sanjay is Playing volleyball Sruthi is Playing basketball	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! ✓

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);}
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

```
import java.util.*;
 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){
    this.visitingTeam=name;
}
public void homeTeamScored(int points){
    System.out.println(homeTeam+" "+points+" scored");
}
public void visitingTeamScored(int points){
  System.out.println(visitingTeam+" "+points+" scored");
}
public void winningTeam(int p1, int p2){
    if(p1>p2){
        System.out.println(homeTeam+" is the winner!");
    }
    else if(p1<p2){
        System.out.println(visitingTeam+" is the winner!");
    }
    else{
        System.out.println("It's a tie match.");
    }
}
}
public class Main{
    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.setHomeTeam(hname);
    s.setVisitingTeam(vteam);
    s.homeTeamScored(htpoints);
    s.visitingTeamScored(vtpoints);
```

	Test	Input	Expected	Got	
✓	1	Rajalakshmi Saveetha	Rajalakshmi 22 scored Saveetha 21 scored	Rajalakshmi 22 scored Saveetha 21 scored	✓

		Javeetha 22 21	Javeetha 21 scored Rajalakshmi is the winner!	Javeetha 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 **3**

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
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 %)

```
interface r{
    String pb="RBI";
    abstract void roi();
    public default void pn(){
        System.out.println(pb+" has a new Policy issued in 2023");
    }
    public static void re(){
        System.out.println(pb+" has updated new regulations in 2024.");
    }
}
class sbi implements r{
    public void pn(){
        System.out.println(pb+" has a new Policy issued in 2023");
    }
    public void re(){
        System.out.println(pb+" has updated new regulations in 2024.");
    }
    public void roi(){
        System.out.println("SBI rate of interest: 7.6 per annum.");
    }
}
class karur implements r{
    public void roi(){
        System.out.println("Karur rate of interest: 7.4 per annum.");
    }
}
public class hello{
    public static void main(String[] args){
        sbi s=new sbi();
        karur k=new karur();
        s.pn();
        s.re();
        s.roi();
        k.roi();
    }
}
```

	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! ✓

Finish review

◄ Lab-07-MCQ

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Generate series and find Nth element ►