

## OOPS - 2

### OOPS components

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Which of the following is not an OOPS component?

### Options

This problem has only one correct answer

☐ Encapsulation

☐ Inheritance

☐ Polymorphism

☒ Aggregation

 Hurray! Correct Answer

### Correct Statement

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Select the correct statement(s).

### Options

This problem may have one or more correct answers

☒ Encapsulation is hiding of data from outside world. ✓

☒ Abstraction means showing only necessary details to the user. ✓

☒ Inheritance is acquiring properties of other class. ✓

☐ Java is not an object oriented language.

 Hurray! Correct Answer

### Keyword

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Which keyword is used to inherit a class?

### Options

This problem has only one correct answer

☐ inherits

☒ extends

☐ imports

☐ None of these

 Hurray! Correct Answer

## Properties of a class

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Which variable(s) can the class person access in the following code?

```
class person{
    String name;
    int weight;
}
class Student extends person{
    int roll_number;
    String school_name;
}
```

## Options

This problem may have one or more correct answers

- ☒ name ✓
- ☒ weight ✓
- ☐ roll\_number
- ☐ school\_name
- ☒ Hurray! Correct Answer

## Predict the output

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What would be the output of the following code?

```
public class person {
    String name;
    int weight;
}
public class Student extends person{
    int roll_number;
    String school_name;
    void print()
    {
        System.out.print(roll_number+" "+name+"
"+weight);
    }
}
public class Student_info {
    public static void main(String[] args) {
        Student s=new Student();
        s.name="ayush";
        s.roll_number=10;
        s.weight=65;
        s.school_name="Vijaya Sr. Sec. School";
        s.print();
    }
}
```

## Answer

10 ayush 65



Correct Answer

## Properties of a class

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Which variable(s) can the class Student access in the following code?

```
class person{
    String name;
    private int weight;
}
class Student extends person{
    private int roll_number;
    String school_name;
}
```

## Options

This problem may have one or more correct answers

- ☒ name ✓
- ☐ weight
- ☒ roll\_number ✓
- ☒ school\_name ✓
- ☒ Hurray! Correct Answer

## Predict the output

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What will be the output of the following code?

```
class Vehicle{
    String colour;
    private int number;
}

class Car extends Vehicle{
    public static void main(String[] args) {
        Vehicle v = new Vehicle();
        v.colour = "black";
        v.number = 8486;
        System.out.println(v.number + " " + v.colour);
    }
}
```

## Options

This problem has only one correct answer

- ☐ 8486 black
- ☒ Compile time error
- ☐ Run time error
- ☐ black 8486
- ☒ Hurray! Correct Answer

What will be the output of the following code?

Both the classes are in same package.

```
class Vehicle{
    String colour;
    private int number;
    void set(int number)
    {
        number=number;
    }
    int get()
    {
        return number;
    }
}

class Car extends Vehicle{
    public static void main(String[] args) {
        Vehicle v = new Vehicle();
        v.colour = "white";
        v.set(1010);
        System.out.println(v.colour + " " + v.get());
    }
}
```

white 0



Correct Answer

## Predict the output

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What will be the output of the following code?

```
class Vehicle{
    String colour;
    private int number;
    void print()
    {
        System.out.println("vehicle");
    }
}

class Car extends Vehicle{
    void print()
    {
        System.out.println("car");
    }
}

class Honda extends Car{
    void print()
    {
        System.out.println("Honda");
    }
}

class buy_car{
    public static void main (String[] args) {
        Car c=new Car();
        c.print();
    }
}
```



## Options

This problem has only one correct answer

- ☐ vehicle
- ☒ car
- ☐ honda
- ☐ error
- ☒ Hurray! Correct Answer

## Predict the output

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What will be the output of the following code?

```
class Vehicle{
    String colour;
    private int number;
    void print()
    {
        System.out.println("vehicle");
    }
}

class Car extends Vehicle{
    void print()
    {
        System.out.println("car");
    }
}

class Honda extends Car{
    void print()
    {
        System.out.println("Honda");
    }
}

class buy_car{
    public static void main (String[] args) {
        Honda c=new Honda();
        c.print();
    }
}
```



## Options

This problem has only one correct answer

- ☐ vehicle
- ☐ car
- ☒ Honda
- ☐ error
- ☒ Hurray! Correct Answer

## Correct Option

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Select option for access modifiers in increasing order of their visibility.

## Options

This problem has only one correct answer

- ☐ Private, Protected, Default, Public
- ☐ Protected, Private, Default, Public
- ☒ Private, Default, Protected, Public
- ☐ Private, Default, Public, Protected
- ☒ Hurray! Correct Answer

## Correct Option

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The following class Vehicle, declares a protected variable name, inside package p1:

```
package p1;

public class Vehicle {
    protected String name;
}
```

Which of the following code(s) will give error?


A.  
package p1;

```
public class Car {
    void props() {
        Vehicle v = new Vehicle();
        v.name = "Vehicle 1st";
    }
}
```

B.  
package p2;

```
class Car extends Vehicle {
    public static void main(String args[]) {
        Car c = new Car();
        c.name = "Ferrari";
    }
}
```



 You have max 2 attempts to score in this question.

Attempts left:  0/2

## Options

This problem may have one or more correct answers

☐ A

☒ B ✓

☒ C ✓

☐ None

 Hurray! Correct Answer

## Solution Description

Please refer to this video: <https://www.youtube.com/watch?v=zCKIaA6So3A>, to understand the solution.

## Predict the output

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What will be the output of the following code?

```
class Vehicle
{
    int maxSpeed = 120;
}
class Car extends Vehicle
{
    int maxSpeed = 180;
    void display()
    {
        System.out.println(super.maxSpeed);
    }
}
class Test
{
    public static void main(String[] args)
    {
        Car c = new Car();
        c.display();
    }
}
```

## Answer

120



Correct Answer



## Predict the output

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What will be the output of the following code?

```
class Person
{
    void fun()
    {
        System.out.print("person class");
    }
}
class Student extends Person
{
    void fun()
    {
        System.out.print("student class");
    }
    void display()
    {
        fun();
        super.fun();
    }
}
class Test
{
    public static void main(String args[])
    {
        Student s = new Student();
        s.display();
    }
}
```

## Answer

student classperson clas✓

Correct Answer

## What is the output

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What Is the o/p of following code

```
class Vehicle {
    int seats;
    int speed;

    public Vehicle(int seats, int speed) {
        System.out.print("Vehicle ");
        this.seats = seats;
        this.speed = speed;
    }
}

class Car extends Vehicle {
    int id;
    Car() {
        System.out.print("Car ");
    }
}

class Main {
    public static void main(String args[]) {
        Car c = new Car();
    }
}
```

## Options

This problem has only one correct answer

- ☐ Vehicle Car
- ☐ Car Vehicle
- ☐ Runtime error
- ☒ Compilation error
- ☒ Hurray! Correct Answer

## What is the output

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What Is The Output

All classes are in same package.

```
class Car {  
    private int seats;  
    private int speed;  
  
    public Car() {  
        System.out.print("This Is Car ");  
    }  
}  
  
class Audi extends Car {  
    Audi() {  
        System.out.print("This Is Audi ");  
        super();  
    }  
}  
  
class Main {  
    public static void main(String args[]) {  
        Audi a = new Audi();  
    }  
}
```

## Options

This problem has only one correct answer

- ☐ This Is Car This Is Audi
- ☐ This Is Audi This Is Car
- ☒ Compilation Error
- ☐ Runtime Error
- ☒ Hurray! Correct Answer

## What is the output

[Send Feedback](#)

What is the output.

All classes are in same package.

```
class Car {  
    private int seats;  
    private int speed;  
  
    public Car(int seats, int speed) {  
        this.seats = seats;  
        this.speed = speed;  
        System.out.print("This Is Car ");  
    }  
}  
  
class Audi extends Car {  
    Audi(int x, int y) {  
        super(x,y);  
        System.out.print("This Is Para Audi ");  
    }  
    void Audi() {  
        System.out.print("This Is Def Audi");  
    }  
}  
  
class Main {  
    public static void main(String args[]) {  
        Audi a = new Audi(5,7);  
        a.Audi();  
    }  
}
```



## Answer

This Is Car This Is Para A ✓

Correct Answer

## Correct Statement

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Select the valid statement(s) on the basis of following code.

Both classes are in same package.

```
class Vehicle {}  
class Car extends Vehicle {}
```

## Options

This problem may have one or more correct answers

- ☒ Vehicle obj = new Vehicle(); ✓
- ☒ Vehicle obj = new Car(); ✓
- ☒ Car obj = new Car(); ✓
- ☐ Car obj = new Vehicle();

✓ Hurray! Correct Answer

## Fill the output

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What is the output -

All classes are in same package.

```
class Vehicle{  
    void print(){  
        System.out.print("Vehicle class");  
    }  
}  
class Car extends Vehicle{  
    void print(){  
        System.out.print("Car class ");  
    }  
}  
  
public class Main {  
    public static void main(String[] args){  
        Vehicle obj1 = new Car();  
        obj1.print();  
  
        Vehicle obj2 = new Vehicle();  
        obj2.print();  
    }  
}
```

## Answer

Car class Vehicle class ✓

Correct Answer

## Predict the output

[Send Feedback](#)

What will be the output of the following code?

```
class Vehicle{
    String colour;
    private int number;
    void print()
    {
        System.out.println("vehicle");
    }
}

class Car extends Vehicle{
    void print()
    {
        System.out.println("car");
    }
}

class Honda extends Car{
    void print()
    {
        System.out.println("Honda");
    }
}

class buy_car{
    public static void main (String[] args) {
        Car c=new Honda();
        c.print();
    }
}
```



## Options

This problem has only one correct answer


- ☐ vehicle
- ☐ car
- ☒ Honda
- ☐ error
- ☒ Hurray! Correct Answer

What will be the output of the following code?

```
class ExceptionThrown
{
    static int divideByZero(int a, int b){
        int i = a/b;
        return i;
    }
    static int computeDivision(int a, int b) {
        int res =0;
        try
        {
            res = divideByZero(a,b);
        }
        catch(NumberFormatException ex)
        {
            System.out.println("Exception occurred");
        }
        return res;
    }
}
public static void main(String args[]){
    int a = 1;
    int b = 1;
    int i=0;
    try
    {
        i = computeDivision(a,b);

    }
    catch(ArithmeticException ex)
    {
        System.out.println(ex.getMessage());
    }
    System.out.print(i);
}
}
```



 You have max 2 attempts to score in this question.

### Options

This problem has only one correct answer

- ☒ 1
- ☐ Exception thrown
- ☐ Runtime error
- ☐ Compile time error
- ☒ Hurray! Correct Answer

## Predict the output

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What will be the output of the following code?

```
class ThrowsExcep {
    static void fun() throws Exception
    {
        throw new Exception();
    }
    public static void main(String args[])
    {
        try {
            fun();
        }
        catch (Exception e) {
            System.out.print("caught in main.");
        }
        System.out.print("All is well");
    }
}
```

## Answer

caught in main.All is wel ✓

Correct Answer

## What is the output

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Select the output of the following program

```
class A{
    public static void main(String[] args){

        try{
            return;
        }
        finally{
            System.out.println("Hello coding ninjas");
        }
    }
}
```

## Options

This problem has only one correct answer

- ☐ No output
- ☐ Exception if thrown at run time
- ☐ Compile time error
- ☒ Hello coding ninjas
- ✓ Hurray! Correct Answer



## What is the output

[Send Feedback](#)

Select the output of the following program

```
class A{
    public static void main(String[] args){

        try{
            int a = 5/0;
        }
        catch(Exception e){
            System.out.print("Exception caught ");
        }
        catch(ArithmeticException e){
            System.out.print("Arithmetic Exception caught ");
        }
        finally{
            System.out.print("finally block");
        }
    }
}
```

## Options

This problem has only one correct answer

- ☐ Exception caught
- ☐ Exception caught Arithmetic Exception caught finally block
- ☒ Compile time error
- ☐ finally block
- ☒ Hurray! Correct Answer

## Valid Statement

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Select the correct statement -

## Options

This problem has only one correct answer

- ☐ The 'try' block should be followed by a 'catch' block.
- ☐ The 'try' block should be followed by a 'finally' block.
- ☒ The 'try' block should be followed by either a 'catch' block or a 'finally' block.
- ☐ can write independent try block
- ☒ Hurray! Correct Answer

A