

OOPS QUESTIONS

Question 1 : Print the sum, difference and product of two complex numbers by creating a class named 'Complex' with separate methods for each operation whose real and imaginary parts are entered by the user.

Question 2 : What is the output of the following program?

```
class Automobile {  
    private String drive() {  
        return "Driving vehicle";  
    }  
}  
  
class Car extends Automobile {  
    protected String drive() {  
        return "Driving car";  
    }  
}  
  
public class ElectricCar extends Car {  
  
    @Override  
    public final String drive() {  
        return "Driving electric car";  
    }  
  
    public static void main(String[] wheels) {  
        final Car car = new ElectricCar();  
        System.out.print(car.drive());  
    }  
}
```

- A. Driving vehicle
- B. Driving electric car
- C. Driving car
- D. The code does not compile

Question 3 : Look at the following code and choose the right option for the word:

```
// Shape.java
public class Shape {
    protected void display() {
        System.out.println("Display-base");
    }
}

// Circle.java
public class Circle extends Shape { <
    < access - modifier > void display() {
        System.out.println("Display-derived");
    }
}
```

- a. Only protected can be used.
- B. public and protected both can be used.**
- C. public, protected, and private can be used.
- d. Only public can be used.

Question 4 : What is the output of the following program?

```
abstract class Car {
    static {
        System.out.print("1");
    }

    public Car(String name) {
        super();
        System.out.print("2");
    }

    {
        System.out.print("3");
    }
}

public class BlueCar extends Car {
    {
        System.out.print("4");
    }
}
```

```
}

public BlueCar() {
    super("blue");
    System.out.print("5");
}

public static void main(String[] gears) {
    new BlueCar();
}
}
```

- A. 23451
- B. 12354
- C. 13245**
- D. The code does not compile.

Question 5 : Read up about basics of exception handling from here :

https://www.w3schools.com/java/java_try_catch.asp