

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

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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");
    }
}
```

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```
}

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.

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

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

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