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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 {
      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");
        }
}
```

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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.

Question 5: Read up about basics of exception handling from here: https://www.w3schools.com/java/java_try_catch.asp