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