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Branch: IT

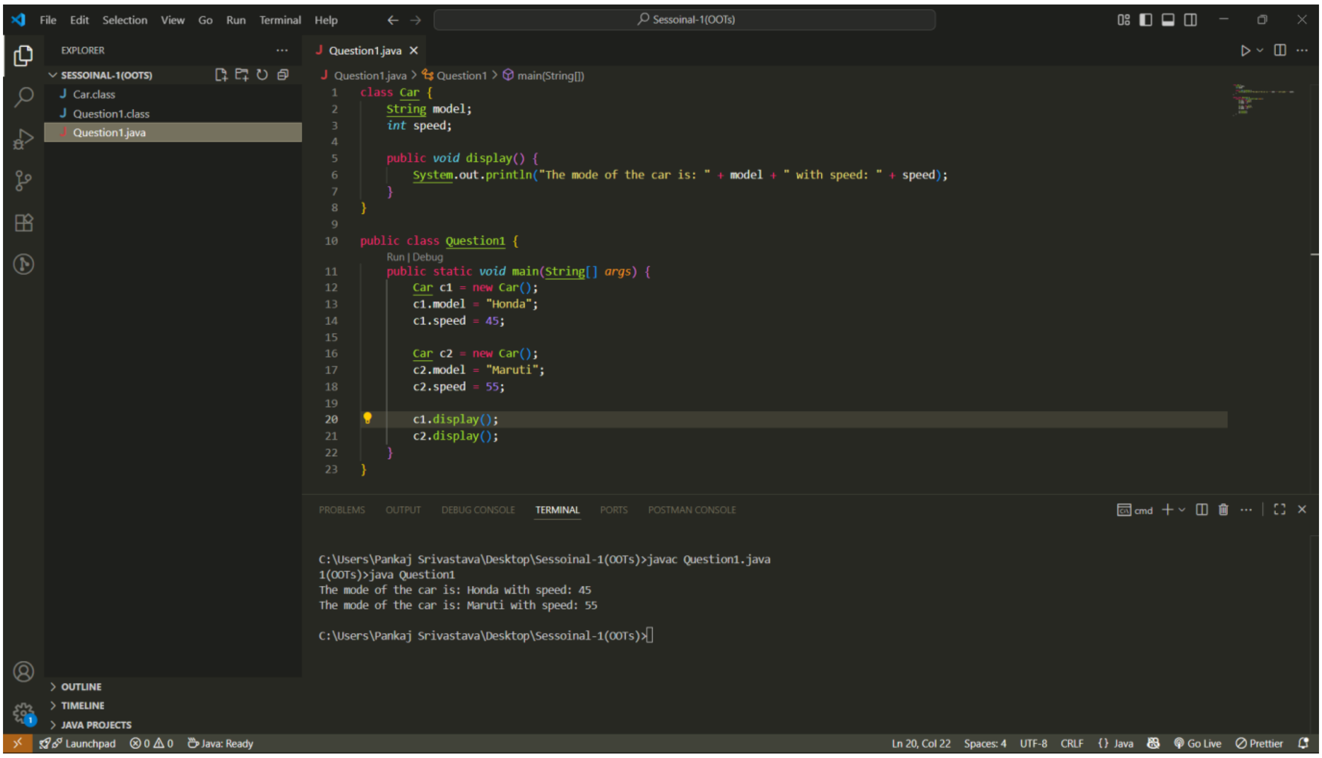
Section: C

Workshop Lab Number: D-203

Q1.

```
class Car {
    String model;
    int speed;

    public void display() {
        System.out.println("The mode of the car is: " + model + " with speed: " + speed);
    }
}

public class Question1 {
    public static void main(String[] args) {
        Car c1 = new Car();
        c1.model = "Honda";
        c1.speed = 45;

        Car c2 = new Car();
        c2.model = "Maruti";
        c2.speed = 55;

        c1.display();
        c2.display();
    }
}
```

OUTPUT FOR QUESTION-1



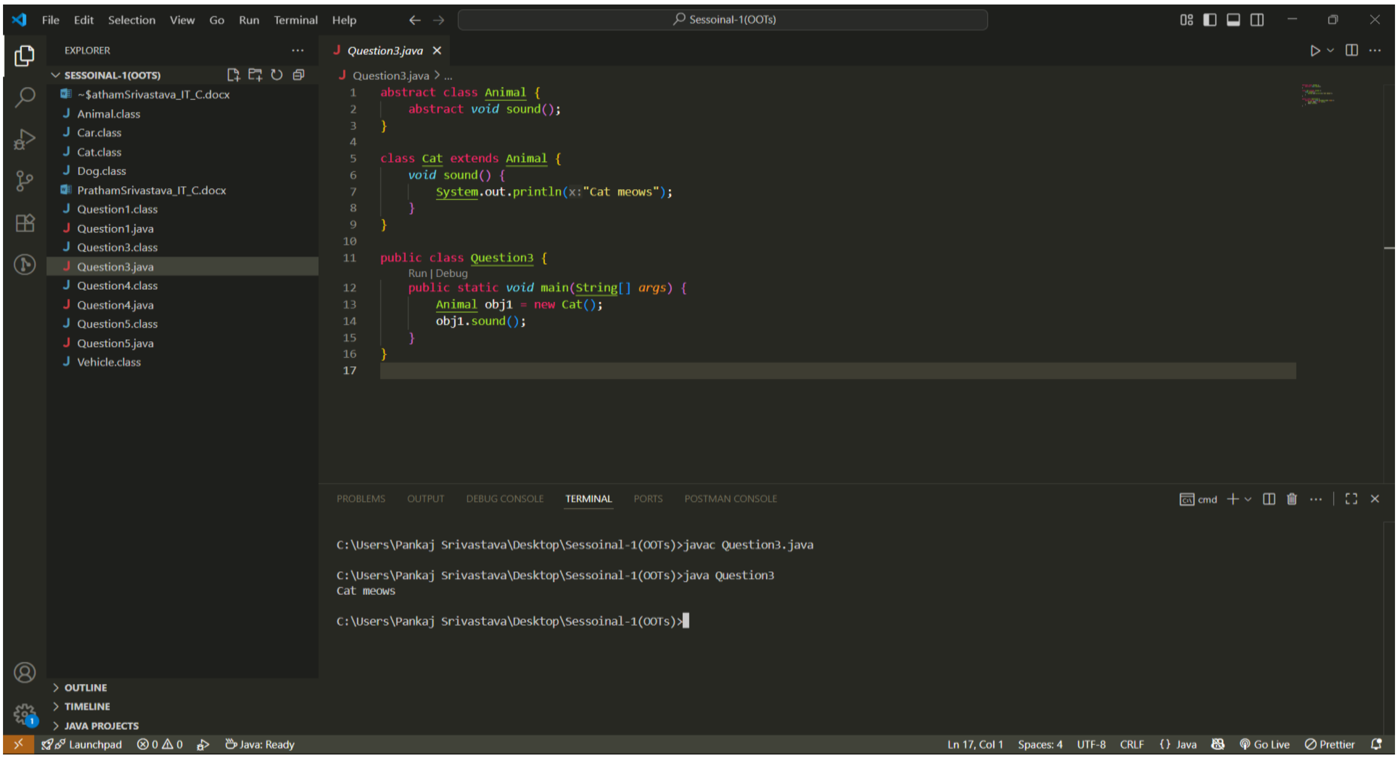
```java
class Car {
    String model;
    int speed;

    public void display() {
        System.out.println("The mode of the car is: " + model + " with speed: " + speed);
    }
}

public class Question1 {
    public static void main(String[] args) {
        Car c1 = new Car();
        c1.model = "Honda";
        c1.speed = 45;

        Car c2 = new Car();
        c2.model = "Maruti";
        c2.speed = 55;

        c1.display();
        c2.display();
    }
}
```

```
C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>javac Question1.java
1(OOTs)>java Question1
The mode of the car is: Honda with speed: 45
The mode of the car is: Maruti with speed: 55

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>
```

Q3.

```
abstract class Animal {
    abstract void sound();
}

class Cat extends Animal {
    void sound() {
        System.out.println("Cat meows");
    }
}

public class Question3 {
    public static void main(String[] args) {
        Animal obj1 = new Cat();
        obj1.sound();
    }
}
```

OUTPUT FOR QUESTION-3



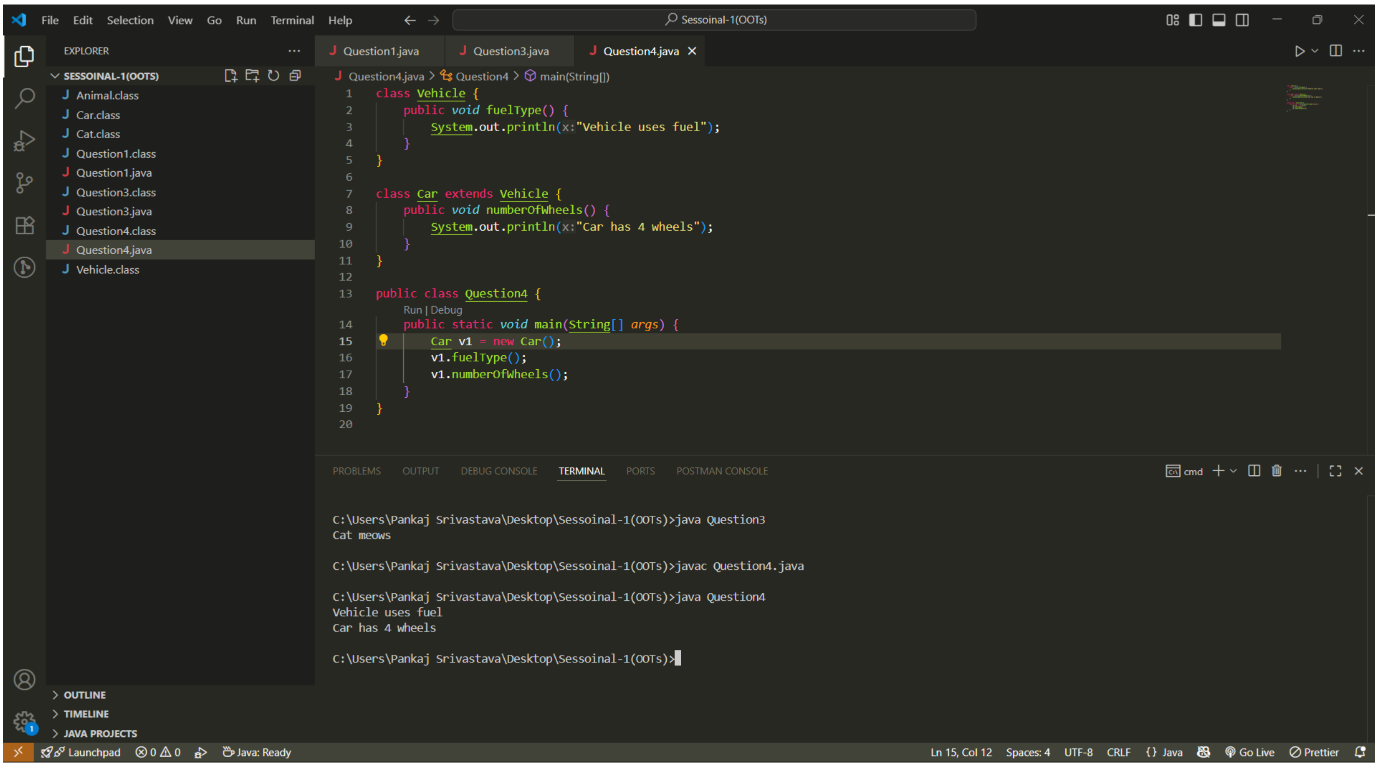
```java
abstract class Animal {
    abstract void sound();
}

class Cat extends Animal {
    void sound() {
        System.out.println(x:"Cat meows");
    }
}

public class Question3 {
    Run | Debug
    public static void main(String[] args) {
        Animal obj1 = new Cat();
        obj1.sound();
    }
}

```

```
C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>javac Question3.java

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>java Question3
Cat meows

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>
```

Q4.

```
class Vehicle {
    public void fuelType() {
        System.out.println("Vehicle uses fuel");
    }
}

class Car extends Vehicle {
    public void numberOfWheels() {
        System.out.println("Car has 4 wheels");
    }
}

public class Question4 {
    public static void main(String[] args) {
        Car v1 = new Car();
        v1.fuelType();
        v1.numberOfWheels();
    }
}
```

OUTPUT FOR QUESTION-4



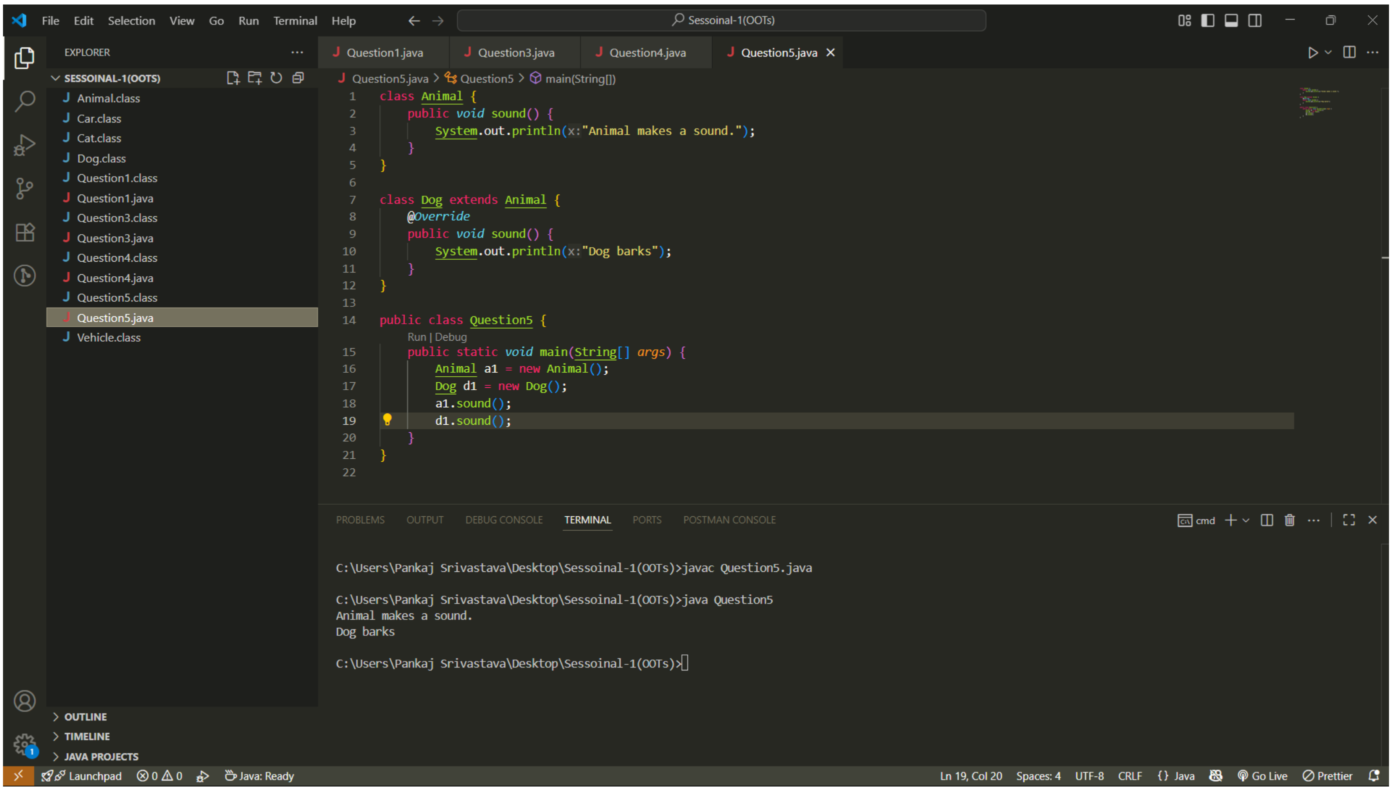
```java
class Vehicle {
    public void fuelType() {
        System.out.println(x:"Vehicle uses fuel");
    }
}

class Car extends Vehicle {
    public void numberOfWheels() {
        System.out.println(x:"Car has 4 wheels");
    }
}

public class Question4 {
    public static void main(String[] args) {
        Car v1 = new Car();
        v1.fuelType();
        v1.numberOfWheels();
    }
}
```

```
C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>java Question3
Cat meows

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>javac Question4.java

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>java Question4
Vehicle uses fuel
Car has 4 wheels

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>
```

Q5.

```
class Animal {
    public void sound() {
        System.out.println("Animal makes a sound.");
    }
}

class Dog extends Animal {
    @Override
    public void sound() {
        System.out.println("Dog barks");
    }
}

public class Question5 {
    public static void main(String[] args) {
        Animal a1 = new Animal();
        Dog d1 = new Dog();
        a1.sound();
        d1.sound();
    }
}
```

OUTPUT FOR QUESTION-5



```java
class Animal {
    public void sound() {
        System.out.println(x:"Animal makes a sound.");
    }
}

class Dog extends Animal {
    @Override
    public void sound() {
        System.out.println(x:"Dog barks");
    }
}

public class Question5 {
    public static void main(String[] args) {
        Animal a1 = new Animal();
        Dog d1 = new Dog();
        a1.sound();
        d1.sound();
    }
}
```

```
C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>javac Question5.java

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>java Question5
Animal makes a sound.
Dog barks

C:\Users\Pankaj Srivastava\Desktop\Sessoinal-1(OOTs)>
```