# Assignment

**Id:AF0342201**
**Name:G.Mamatha**

● Write a Java program to create a class called Vehicle with a method called drive().

● Vehicle should have attributes such as make (String), model (String) ,year (int) and maximumSpeed (int).

● Create a constructor in Vehicle with all fields as constructor parameters.

● Create a subclass called Car and override constructor. Call super().

●Write a function that overrides the drive() method to print (make + “ ” +model + " Car is driving". )

● Also create another subclass Bike extending the vehicle class.
●Override the drive() method to print (make + “ ” + model + " Bike is driving". )

● Instantiate both Bike and Car class. Print their attributes.

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●Override the drive() method to print (make + “ ” + model + " Bike is driving". )

● Instantiate both Bike and Car class. Print their attributes.

// lab program…

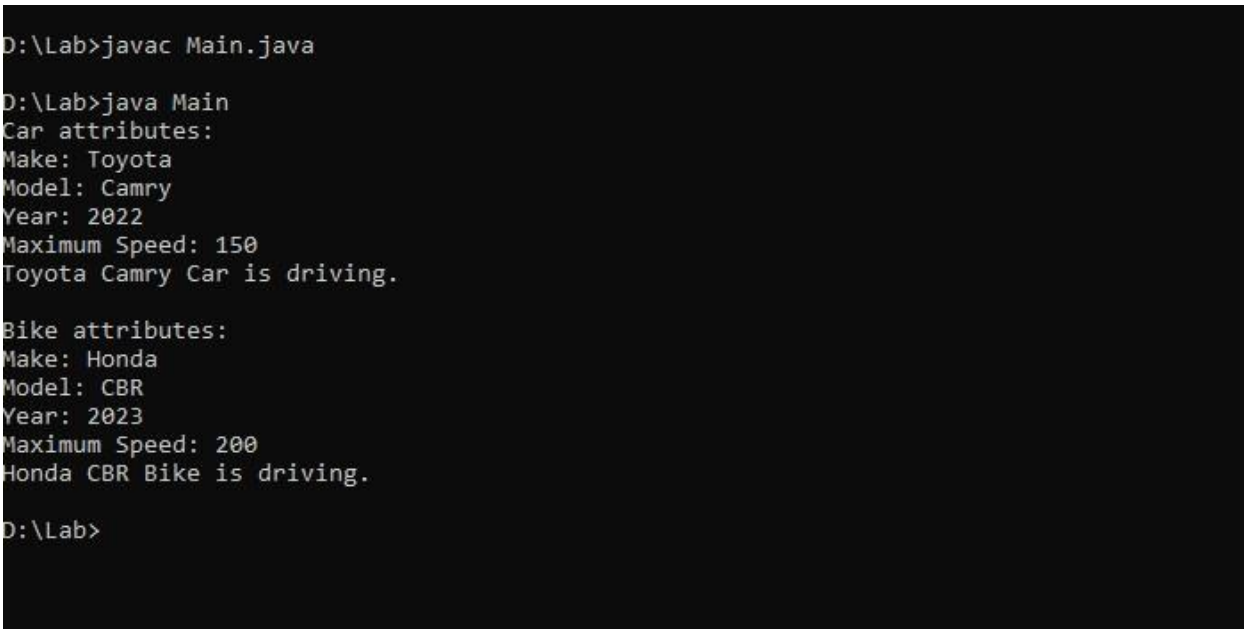
```
class Vehicle {
    String make;
    String model;
    int year;
    int maximumSpeed;

    public Vehicle(String make, String model, int year, int maximumSpeed) {
```

```
        this.make = make;
        this.model = model;
        this.year = year;
        this.maximumSpeed = maximumSpeed;
    }

    public void drive() {
        System.out.println(make + " " + model + " is driving.");
    }
}

class Car extends Vehicle {
    public Car(String make, String model, int year, int
maximumSpeed) {
        super(make, model, year, maximumSpeed);
    }
public void drive() {
        System.out.println(make + " " + model + " Car is driving.");
    }
```

```
}

class Bike extends Vehicle {
    public Bike(String make, String model, int year, int maximumSpeed) {
        super(make, model, year, maximumSpeed);
    }
 public void drive() {
        System.out.println(make + " " + model + " Bike is driving.");
    }
}

public class Main {
    public static void main(String[] args) {
        Car car = new Car("Toyota", "Camry", 2022, 150);
        Bike bike = new Bike("Honda", "CBR", 2023, 200);

        System.out.println("Car attributes:");
        System.out.println("Make: " + car.make);
```

```
        System.out.println("Model: " + car.model);
        System.out.println("Year: " + car.year);
        System.out.println("Maximum Speed: " +
car.maximumSpeed);
        car.drive();


        System.out.println("\nBike attributes:");
        System.out.println("Make: " + bike.make);
        System.out.println("Model: " + bike.model);
        System.out.println("Year: " + bike.year);
        System.out.println("Maximum Speed: " +
bike.maximumSpeed);
        bike.drive();
    }
}
```

## Output:


D:\Lab>javac Main.java
D:\Lab>java Main
Car attributes:
Make: Toyota
Model: Camry
Year: 2022
Maximum Speed: 150
Toyota Camry Car is driving.
Bike attributes:
Make: Honda
Model: CBR
Year: 2023
Maximum Speed: 200
Honda CBR Bike is driving.
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