

For this exercise, follow the steps in document: **createNewJavaProject**

Use the following project, package and class names:

Project: **VehicleProject**

Package: **vehicle**

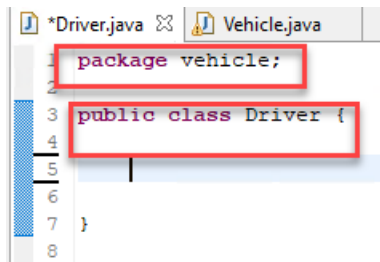
Class: **Driver**

Class: **Vehicle**

You should have a copy of the source code.

The **Driver.java** class file will open in the **Eclipse editor** window. Notice the **vehicle** package name.

In the main method, enter the code below



Do the same for a class called **Vehicle**

```
package vehicle;
```

```
public class Driver {  
  
    private String name;  
  
    public Driver(String name) {  
  
        this.name = name;  
  
    }  
  
    public String getName() {  
  
        return name;  
  
    }  
  
}
```

```
package vehicle;
```

```
public class Vehicle extends Driver{ //Class Vehicle that inherits from  
Driver class  
  
    private static int maxVIN; //Class variable  
    private int vin; //Object owned by variable
```

```

private double currentSpeed;
private String currentDirection;
private String ownerName;

public Vehicle() { //constructor with no parameters

    super("Tom Grant");
    vin=0;
    maxVIN = 0;
    currentSpeed=0;
    currentDirection="";
    ownerName = "None";
}

public Vehicle(String ownNm) { //constructor with 1 parameters

    super("Mike Skywalker");
    ownerName= ownNm;
    vin=0;
    maxVIN = 0;
    currentSpeed=0;
    currentDirection="";
}

public void setVehicleSpeed(double currentSpeed) { //set the
current speed

    this.currentSpeed = currentSpeed;
}

public double getVehicleSpeed(){ //return the current speed

    return currentSpeed;
}

public void setVehicleDirection(String currentDirection) { //set
the current direction

    this.currentDirection = currentDirection;
}

public String getVehicleDirection(){ //return the current
direction

    return currentDirection;
}

public void setVIN(int vin1) { //set each vehicle's VIN

    if(vin1 > maxVIN){ //look for, and set, the max VIN
        maxVIN = vin1;
    }
    vin = vin1;
}

public int getVIN() { //return each vehicle's vin

```

```

        return vin;
    }

    public int getMaxVIN(){ //get the value of the class variable for
all objects
        return maxVIN;
    }

    public String toString() { //Cast the Vehicle to a string
and output the values

        if(!ownerName.equalsIgnoreCase("")){
            return "Vehicle owner: " + ownerName + ", VIN: " + vin + ",
current speed: " + currentSpeed + ", Current Direction: " + currentDirection;
//Output if model, and year are passed to constructor
        }
        else{
            return "Vehicle owner: " + ownerName + ", VIN: " + vin + ",
current speed: " + currentSpeed + ", Current Direction: " + currentDirection;
//Output if make, model, and year are passed to constructor
        }
    }

    public static void main(String[] args) {

        Vehicle vehicle1 = new Vehicle("Tom Burger");
//Instantiate Vehicle class pass in the string
        Vehicle vehicle2 = new Vehicle("John Rider");
        Vehicle vehicle3 = new Vehicle("Pete Bucks");

        String driverName1 = vehicle1.getName(); //Call getname
on vehicle objects, inherited from Driver class
        String driverName2 = vehicle2.getName();
        String driverName3 = vehicle3.getName();

        vehicle1.setVIN(1177523); //On each vehicle
object, call setVIN, set vehicle speed and vehicle direc
        vehicle1.setVehicleSpeed(65.00);
        vehicle1.setVehicleDirection("North");
        System.out.println(vehicle1.toString());

        vehicle2.setVIN(223250000);
        vehicle2.setVehicleSpeed(40.00);
        vehicle2.setVehicleDirection("West");
        System.out.println(vehicle2.toString());

        vehicle3.setVIN(94525870);
        vehicle3.setVehicleSpeed(55.00);
        vehicle3.setVehicleDirection("South");
        System.out.println(vehicle3.toString());

        System.out.println("The max VIN is: " +
vehicle1.getMaxVIN() + " the test driver name is: " + driverName1); //output
the max VIN for the objects and the driver name.
        System.out.println("The max VIN is: " +
vehicle2.getMaxVIN() + " the test driver name is: " + driverName1);

```

```

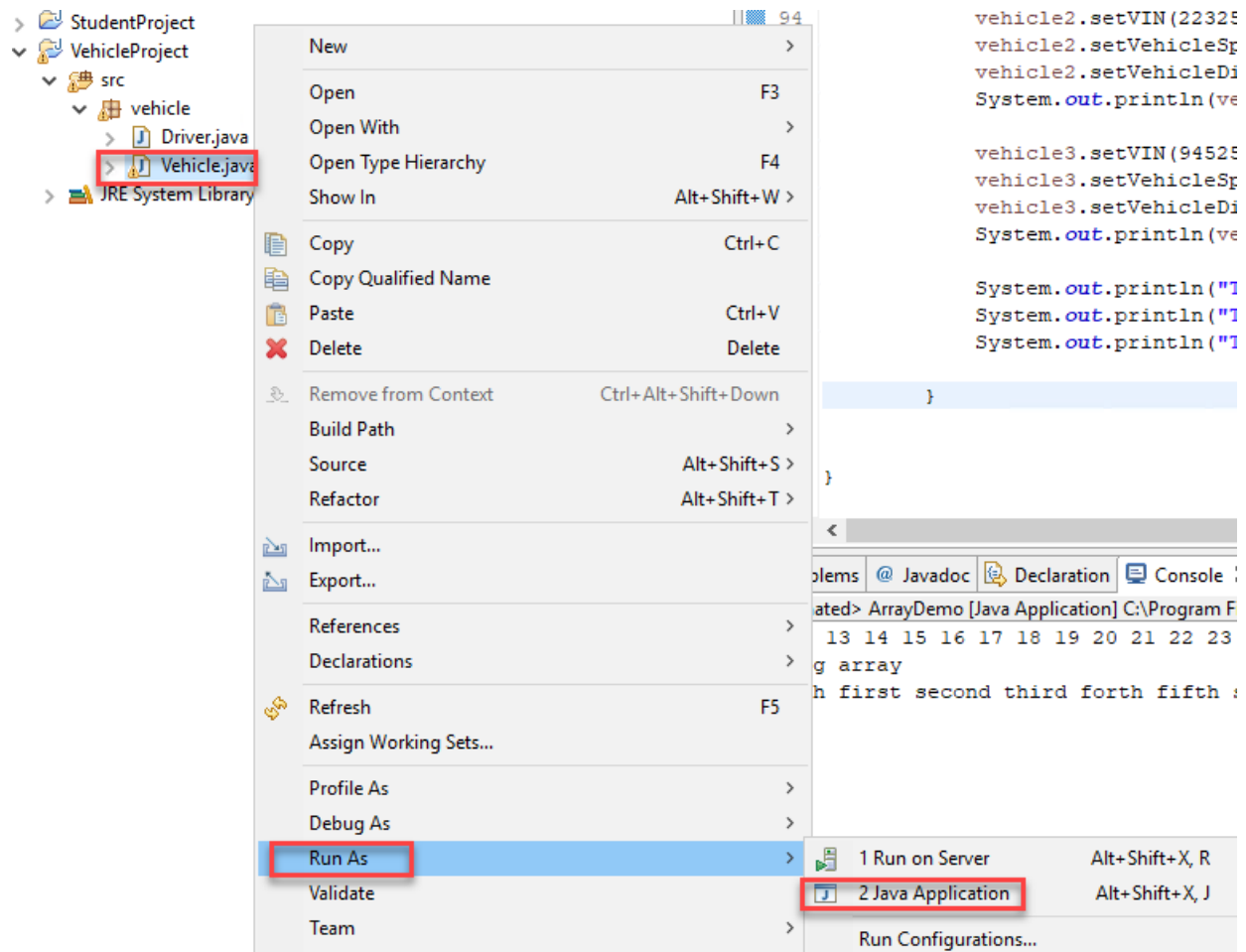
        System.out.println("The max VIN is: " +
vehicle3.getMaxVIN() + " the test driver name is: " + driverName1);
    }

}

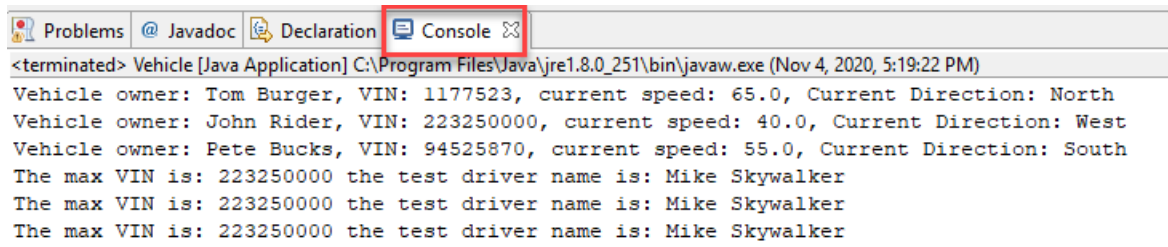
```

Run the application.

In the **VehicleProject** project, select the **Vehicle.java** class file, right click, click **Run As -> Java Application**.



The output will appear in the **Console** window.



The screenshot shows an IDE interface with four tabs: Problems, Javadoc, Declaration, and Console. The Console tab is active and highlighted with a red rectangle. Below the tabs, the console output is displayed in a monospaced font. The output starts with a terminated message and then shows three lines of vehicle data, each followed by a line indicating the maximum VIN and the test driver name.

```
<terminated> Vehicle [Java Application] C:\Program Files\Java\jre1.8.0_251\bin\javaw.exe (Nov 4, 2020, 5:19:22 PM)
Vehicle owner: Tom Burger, VIN: 1177523, current speed: 65.0, Current Direction: North
Vehicle owner: John Rider, VIN: 223250000, current speed: 40.0, Current Direction: West
Vehicle owner: Pete Bucks, VIN: 94525870, current speed: 55.0, Current Direction: South
The max VIN is: 223250000 the test driver name is: Mike Skywalker
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```