

Quiz 2 Part 1 Code

```
1 package edu.cpp.cs5800.quiz2.part1;  
2  
3 public class Car extends Vehicle{  
4 }  
5
```

Quiz 2 Part 1 Code

```
1 package edu.cpp.cs5800.quiz2.part1;  
2  
3 public class Truck extends Vehicle{  
4 }  
5
```

Quiz 2 Part 1 Code

```
1 package edu.cpp.cs5800.quiz2.part1;  
2  
3 public abstract class Vehicle {  
4 }  
5
```

Quiz 2 Part 1 Code

```
1 package edu.cpp.cs5800.quiz2.part1;  
2  
3 public class Motorcycle extends Vehicle {  
4 }  
5
```

Quiz 2 Part 1 Code

```
1 package edu.cpp.cs5800.quiz2.part1;
2
3 import java.util.Random;
4
5 public class TrafficLight {
6     enum Color {
7         RED, YELLOW, GREEN
8     }
9
10    private Color color;
11
12    public TrafficLight() {
13        Random rand = new Random();
14        int i = rand.nextInt() % 3;
15        if (i == 0) {
16            color = Color.RED;
17        } else if (i == 1) {
18            color = Color.YELLOW;
19        } else {
20            color = Color.GREEN;
21        }
22    }
23
24    public void changeColor() {
25        if (color == Color.RED) {
26            color = Color.GREEN;
27        } else if (color == Color.YELLOW) {
28            color = Color.RED;
29        } else {
30            color = Color.YELLOW;
31        }
32    }
33
34    public Color getColor() {
35        return color;
36    }
37 }
38
```