

```
1 package Exercise2;
2
3 public class NewCar {
4     double speed;
5     String color;
6     final static double MAX_SPEED = 200.0;
7
8     NewCar() {
9         speed = 0.0;
10        color = "";
11    }
12
13    NewCar(String color){
14        this.color = color;
15    }
16
17    public double getSpeed() {
18        return MileToKillo(speed);
19    }
20
21    public void setSpeed(double speed) {
22        this.speed = speed;
23    }
24
25    public String getColor() {
26        return color;
27    }
28
29    public void setColor(String color) {
30        this.color = color;
31    }
32
33    boolean speedUp(double speed) {
34        if((speed > MAX_SPEED) && (speed < 0)) {
35            this.speed = 0.0;
36            return false;
37        } else {
38            this.speed = KilloToMile(speed) + this.speed;
39            return true;
40        }
41    }
42
43    public static double getMaxSpeed() {
44        return MAX_SPEED;
45    }
46
47    double KilloToMile(double distance) {
48        speed = distance / 1.6;
49        return speed;
50    }
```

```
51
52     double MileToKillo(double distance) {
53         speed = distance * 1.6;
54         return speed;
55     }
56
57
58 }
59
```