

Vehicle.java

```
1 package hw;
2
3 public class Vehicle {
4
5
6     protected double Mileage_Per_Hour;
7     protected int No_Of_Passengers;
8     protected String Type;
9
10    protected void set_Mileage_Per_Hour(double Mileage_Per_Hour) {
11
12        this.Mileage_Per_Hour = Mileage_Per_Hour;
13
14    }
15
16    protected void set_No_Of_Passengers(int No_Of_Passengers) {
17
18        this.No_Of_Passengers = No_Of_Passengers;
19
20    }
21
22    protected void set_Type() {
23
24        //this.Type = Type;
25        this.Type = "Genereral Vehicle";
26
27    }
28
29
30    protected double get_Mileage_Per_Hour() {
31
32        return this.Mileage_Per_Hour;
33    }
34
35    protected int get_No_Of_Passengers() {
36
37        return this.No_Of_Passengers;
38    }
39
40    protected String get_Type() {
```

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41
42     return this.Type;
43 }
44
45 public String toString() {
46
47     return "[Type = "+this.getType()+"", Mileage per hour =
"+this.getMileage_Per_Hour()+"", No Of Passengers =
"+this.getNo_Of_Passengers()+""]";
48 }
49
50 public Vehicle() {
51
52
53 }
54
55 public Vehicle(double Mileage_Per_Hour, int No_Of_Passengers) {
56
57     this.setMileage_Per_Hour(Mileage_Per_Hour);
58     this.setNo_Of_Passengers(No_Of_Passengers);
59     this.setType("");
60 }
61
62 public static void main(String[] args) {
63
64     Vehicle v1 = new Vehicle(10.5, 5);
65     System.out.println(v1.toString());
66     Vehicle v2 = new Boat(5.5, 15);
67     System.out.println(v2.toString());
68     Vehicle v3 = new Car(15.5, 4);
69     System.out.println(v3.toString());
70     Vehicle v4 = new Hovercraft(1.2, 1);
71     System.out.println(v4.toString());
72
73 }
74 }
75
76
```