```
 2 * @author  patrickF
 5 */
 6 package week3Src;
 7
 8 public class Car {
 9     // instance variables
10
11     private int tankSize;
12     private String model;
13     private double manfMPG;
14     private Name ownerName;
15
16     // constructor
17     public Car(String model, int tank, Name owner, double mpg) {
18         // Overloaded
19         this.model = model;
20         this.tankSize = tank;
21         this.ownerName = owner;
22         this.manfMPG = mpg;
23     }
24
25     // Setters
26     // set value of model
27     public void setModel(String value) {
28         this.model = value;
29     }
30
31     // set value of model
32     public void setTankSize(int value) {
33         this.tankSize = value;
34     }
35
36     // set value of mpg
37     public void setManfMPG(double value) {
38         this.manfMPG = value;
39     }
40
41     // set value of ownerName
42     public void setOwnerName(Name value) {
43         this.ownerName = value;
44     }
45     // Getters
46
47     // Return model
48     public String getModel() {
49         return this.model;
50     }
51
52     // Return tankSize
53     public int getTankSize() {
54         return this.tankSize;
55     }
56
57     // Return manfMPG
58     public double getManfMPG() {
59         return this.manfMPG;
60     }
61
62     // Return ownerName
63     public Name getOwnerName() {
64         return this.ownerName;
```

```
64      }
65
66      // Methods
67
68      /***
69       * Method to check if the tank has the same size of Size.
70       *
71       * @param size
72       * @return Inefficient fuel use
73       * @return Good fuel consumption
74       * @return Good fuel consumption
75       */
76      public String tankBigger(int size) {
77          if (this.tankSize > size) {
78              return "Inefficient fuel use";
79          } else if (this.tankSize < size) {
80              return "Good fuel consumption";
81          } else {
82              return "Average consumer";
83          }
84
85      }
86
87      public String getOwner() {
88
89          return this.getOwnerName().getFullName();
90      }
91
92      // estimate distance car can travel
93      public double estimateDistance() {
94          // there are 0.22 gallons per litre
95          double GPL = 0.22;
96          return this.tankSize * this.manfMPG * GPL;
97      }
98
99  }
100
```