```
1 //Keyin Lopez 12/9/2019 Week 3 Lab 04 "Classes"
2 //This project demonstrates the use of classes and objects and getters/setters
4 public class Driver {
           public static void main(String[] args) {
    //creating an instance of the Car class and giving the car the name of "Lola"
    Car Lola = new Car("Lola");
    System.out.println("Lola hasa current speed of " + Lola.getSpeed() + " and has gone a distance of " + Lola.getDistance());
6⊖
          Lola.setSpeed(50);

//bystem.out.println("speed: " + Lola.getSpeed());

Lola.travel(1.5);

System.out.println("Lola hasa current speed of " + Lola.getSpeed() + " and has gone a distance of " + Lola.getDistance());
10
11
12
13
14
                 Lola.decelerate(15);
15
                 Lola.travel(1);
16
                 System.out.println("Lola hasa current speed of " + Lola.getSpeed() + " and has gone a distance of " + Lola.getDistance());
17
18
          }
19
20
21 }
22
```

```
1 public class Car {
 2
            //default constructor
 3
 40
            public Car(String name){
 5
                this.name = name;
 6
 7
 8
 9
            private double speed= 0;
            private String name;
10
            private double distanceTraveled = 0;
11
12
13
            //car speed getter
14@
            public double getSpeed() {
15
                return this.speed;
16
17
18
           //speed setter
19⊕
            public void setSpeed(double num) {
20
                this.speed = num;
21
22
23
            //car name getter
240
            public String getName() {
25
                return name;
26
27
28
            //car name setter
29⊝
            public void setName(String n) {
30
                name = n;
31
32
           //get distance
            public double getDistance() {
33⊕
34
                return distanceTraveled;
35
36
            //set the distance that it traveled
37
            public void setDistanceTraveled(double m) {
38⊝
39
                distanceTraveled = m * speed;
40
41
42
            //only accelerate if the number is > 0
            public void accelerate(double number) {
43⊕
               if(number > 0) {
44
45
                    speed = speed + number;
46
47
            }
48
49
            //only decelerate if the number is > 0
50⊝
            public void decelerate(double number) {
51
                if(number > 0) {
52
                    double num = this.speed - number;
53
                    setSpeed(num);
54
                }
55
56
57
            //receives a number of hours traveled
58⊝
            public void travel(double hours) {
59
                distanceTraveled = distanceTraveled + (speed * hours);
60
        }
Lola hasa current speed of 0.0 and has gone a distance of 0.0
Lola hasa current speed of 50.0 and has gone a distance of 75.0
Lola hasa current speed of 35.0 and has gone a distance of 110.0
```