Problem 1:

```
2 public class Car {
     private int speed = 0;
       private double distance = 0;
 5
 60
      public void setSpeed(int speed) {
 7
          this.speed = speed;
 8
      public int getSpeed() {
9⊝
         return this.speed;
10
11
      }
12
13⊖
     public void setDistance(double distance) {
14
          this.distance = distance;
15
16⊖
     public double getDistance() {
17
         return this.distance;
18
      }
19
20⊖
     public void accelerate(int speed) {
21
         if(speed >= 0) {
22
              this.speed += speed;
23
          }
24
      }
25⊖
      public void decelerate(int speed) {
26
         if(speed >= 0) {
27
              this.speed -= speed;
28
29
          if(this.speed < 0) {
30
             this.speed = 0;
31
          }
32
      }
33
34⊖
     public void travel(double hours) {
35
         this.distance += this.speed * hours;
36
      }
37 }
```

```
2 public class Four {
40
       public static void main(String[] args) {
           Car Lola = new Car();
 6
           Lola.setDistance(0);
 7
           Lola.setSpeed(0);
 8
9
           System.out.println("Lola has a current speed of "
           + Lola.getSpeed() + " and has gone a distance of "
10
11
                    + (int)Lola.getDistance());
12
13
           Lola.accelerate(50);
14
           Lola.travel(1.5);
15
           System.out.println("Lola has a current speed of "
16
           + Lola.getSpeed() + " and has gone a distance of "
17
                   + (int)Lola.getDistance());
18
19
           Lola.decelerate(15);
20
           Lola.travel(1);
21
           System.out.println("Lola has a current speed of "
22
           + Lola.getSpeed() + " and has gone a distance of "
23
                   + (int)Lola.getDistance());
24
       }
25
26 }
```

Lola has a current speed of 0 and has gone a distance of 0 Lola has a current speed of 50 and has gone a distance of 75 Lola has a current speed of 35 and has gone a distance of 110