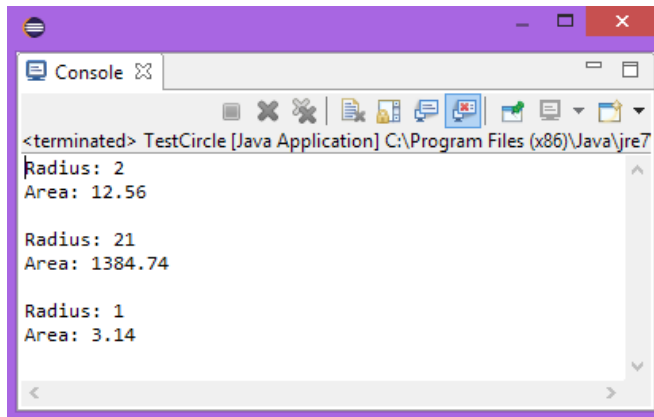


Number 1

```
*Circle.java
5
6 public class Circle {
7     private int radius;
8     private double area;
9     public Circle()
10    {
11        radius = 1;
12    }
13    public void setRadius (int radiusNew)
14    {
15        radius = radiusNew;
16    }
17    public int getRadius()
18    {
19        return radius;
20    }
21    public void computeArea()
22    {
23        area = (radius*radius*3.14);
24    }
25    public double getArea()
26    {
27        return area;
28    }
29    public String toString()
30    {
31        return "Radius: "+radius+"\nArea: "+area;
32    }
33
34
35
36 }
37
```

```
TestCircle.java
1 //-----
2 // Author: Shyaan Khan    Period: 4    Date:
3 // Description:
4 //-----
5 public class TestCircle {
6
7     public static void main(String []args)
8     {
9         Circle c1 = new Circle();
10        Circle c2 = new Circle();
11        Circle c3 = new Circle();
12
13
14        c1.setRadius(2);
15        c1.computeArea();
16
17        System.out.println(c1);
18        System.out.println();
19
20        c2.setRadius(21);
21        c2.computeArea();
22
23        System.out.println(c2);
24        System.out.println();
25
26        c3.computeArea();
27        System.out.println(c3);
28
29
30    }
31 }
32
```

OUTPUT:

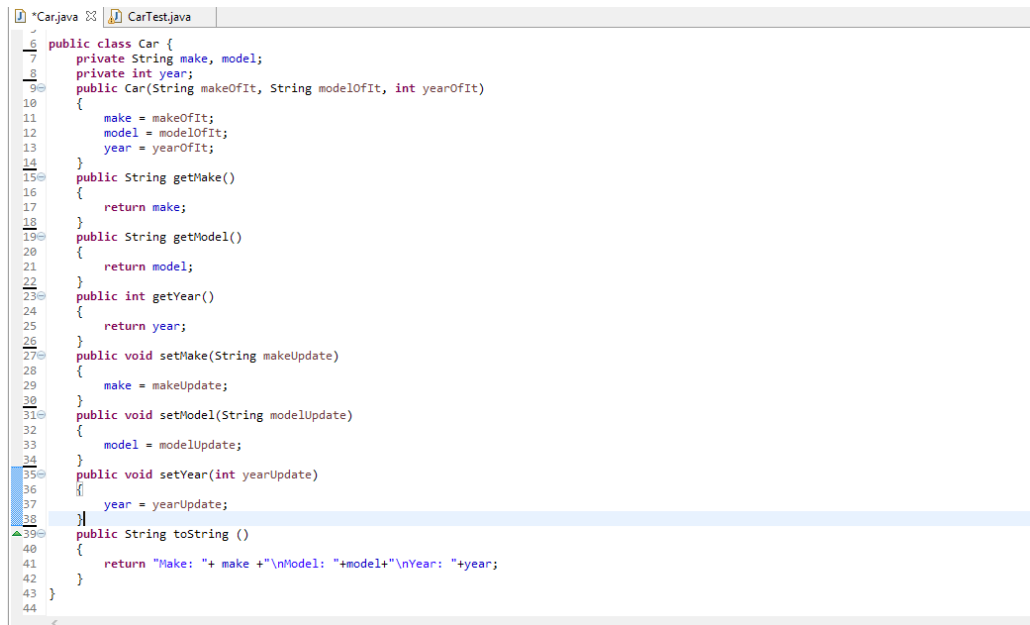


```
<terminated> TestCircle [Java Application] C:\Program Files (x86)\Java\jre7
Radius: 2
Area: 12.56

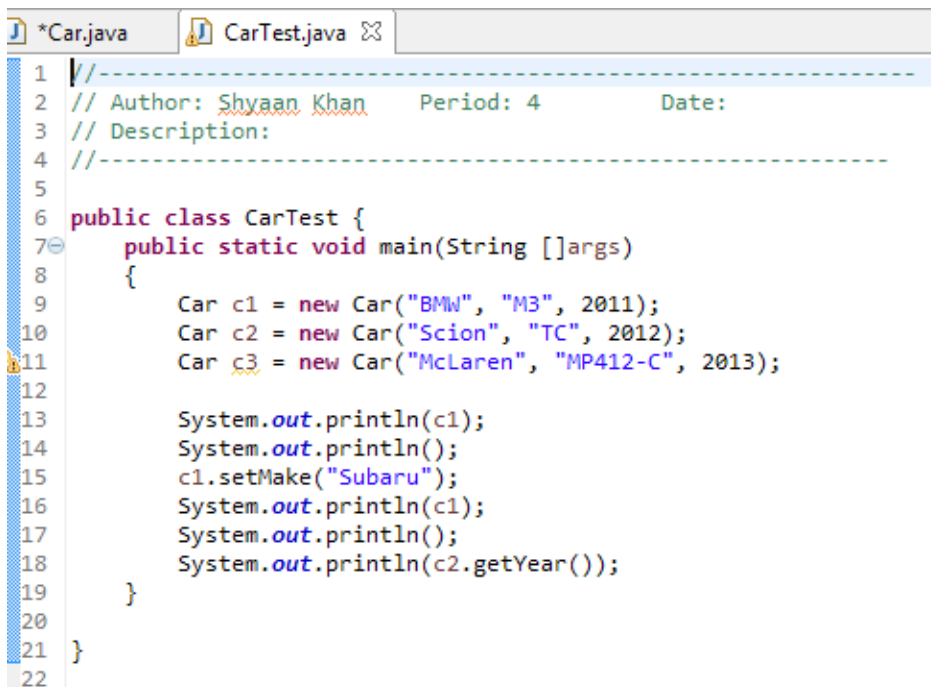
Radius: 21
Area: 1384.74

Radius: 1
Area: 3.14
```

Number 2 (Mini Lab 1)

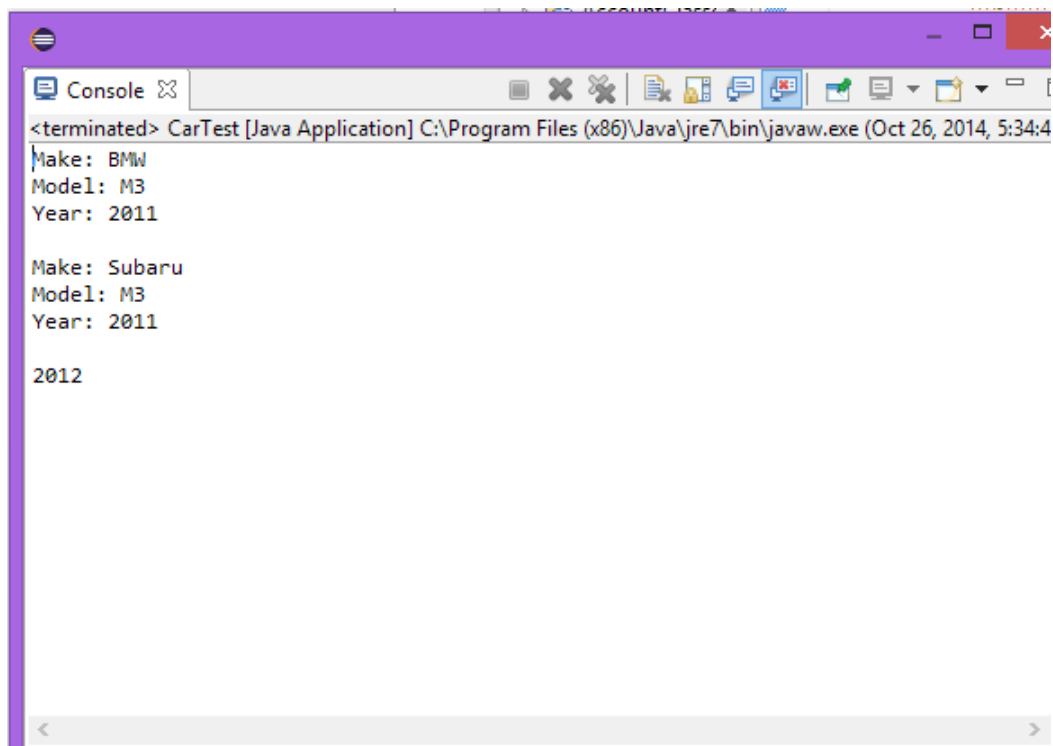


```
1 public class Car {
2     private String make, model;
3     private int year;
4     public Car(String makeOfIt, String modelOfIt, int yearOfIt)
5     {
6         make = makeOfIt;
7         model = modelOfIt;
8         year = yearOfIt;
9     }
10    public String getMake()
11    {
12        return make;
13    }
14    public String getModel()
15    {
16        return model;
17    }
18    public int getYear()
19    {
20        return year;
21    }
22    public void setMake(String makeUpdate)
23    {
24        make = makeUpdate;
25    }
26    public void setModel(String modelUpdate)
27    {
28        model = modelUpdate;
29    }
30    public void setYear(int yearUpdate)
31    {
32        year = yearUpdate;
33    }
34    public String toString ()
35    {
36        return "Make: " + make + "\nModel: " + model + "\nYear: " + year;
37    }
38 }
```



```
1 //-----
2 // Author: Shyaan Khan   Period: 4   Date:
3 // Description:
4 //-----
5
6 public class CarTest {
7     public static void main(String []args)
8     {
9         Car c1 = new Car("BMW", "M3", 2011);
10        Car c2 = new Car("Scion", "TC", 2012);
11        Car c3 = new Car("McLaren", "MP412-C", 2013);
12
13        System.out.println(c1);
14        System.out.println();
15        c1.setMake("Subaru");
16        System.out.println(c1);
17        System.out.println();
18        System.out.println(c2.getYear());
19    }
20 }
21
22 }
```

Output:

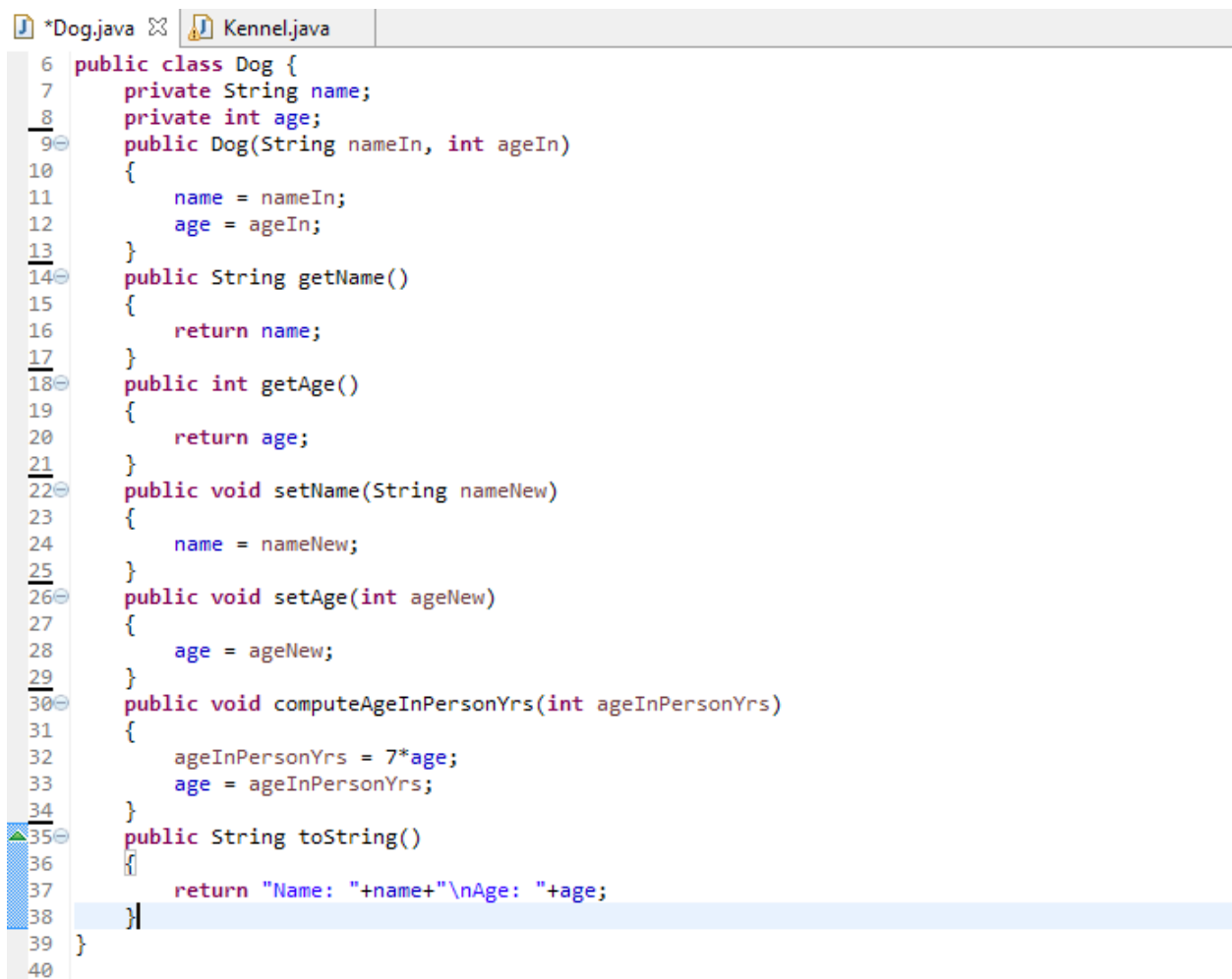


```
<terminated> CarTest [Java Application] C:\Program Files (x86)\Java\jre7\bin\javaw.exe (Oct 26, 2014, 5:34:4
Make: BMW
Model: M3
Year: 2011

Make: Subaru
Model: M3
Year: 2011

2012
```

Number 3 (Mini Lab #2)



```
*Dog.java Kennel.java
6 public class Dog {
7     private String name;
8     private int age;
9     public Dog(String nameIn, int ageIn)
10    {
11        name = nameIn;
12        age = ageIn;
13    }
14    public String getName()
15    {
16        return name;
17    }
18    public int getAge()
19    {
20        return age;
21    }
22    public void setName(String nameNew)
23    {
24        name = nameNew;
25    }
26    public void setAge(int ageNew)
27    {
28        age = ageNew;
29    }
30    public void computeAgeInPersonYrs(int ageInPersonYrs)
31    {
32        ageInPersonYrs = 7*age;
33        age = ageInPersonYrs;
34    }
35    public String toString()
36    {
37        return "Name: "+name+"\nAge: "+age;
38    }
39 }
40 }
```

```
*Dog.java  Kennel.java
1  //-----
2  // Author: Shyaan Khan   Period: 4       Date:
3  // Description:
4  //-----
5
6  public class Kennel {
7      public static void main(String[] args)
8      {
9          Dog d1 = new Dog("Air Bud", 15);
10         Dog d2 = new Dog ("Snoop", 2);
11         Dog d3 = new Dog("Cat", 4);
12
13         d1.computeAgeInPersonYrs(15);
14         System.out.println(d1);
15         System.out.println();
16
17         d1.setName("My Dawg");
18         System.out.println(d1);
19         System.out.println();
20
21         d2.computeAgeInPersonYrs(2);
22         System.out.println(d2);
23
24     }
25
26 }
27
```

OUTPUT:

```
Console
<terminated> Kennel [Java Application] C:\Program Files (x86)\Java\j
Name: Air Bud
Age: 105

Name: My Dawg
Age: 105

Name: Snoop
Age: 14
|
```