


IntelliJ IDEA version




IntelliJ IDEA 15

IntelliJ IDEA 15.0.3
Build #IU-143.1821, built on January 19, 2016

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JRE: 1.8.0_51-b16 x86
JVM: Java HotSpot(TM) Server VM by Oracle Corporation

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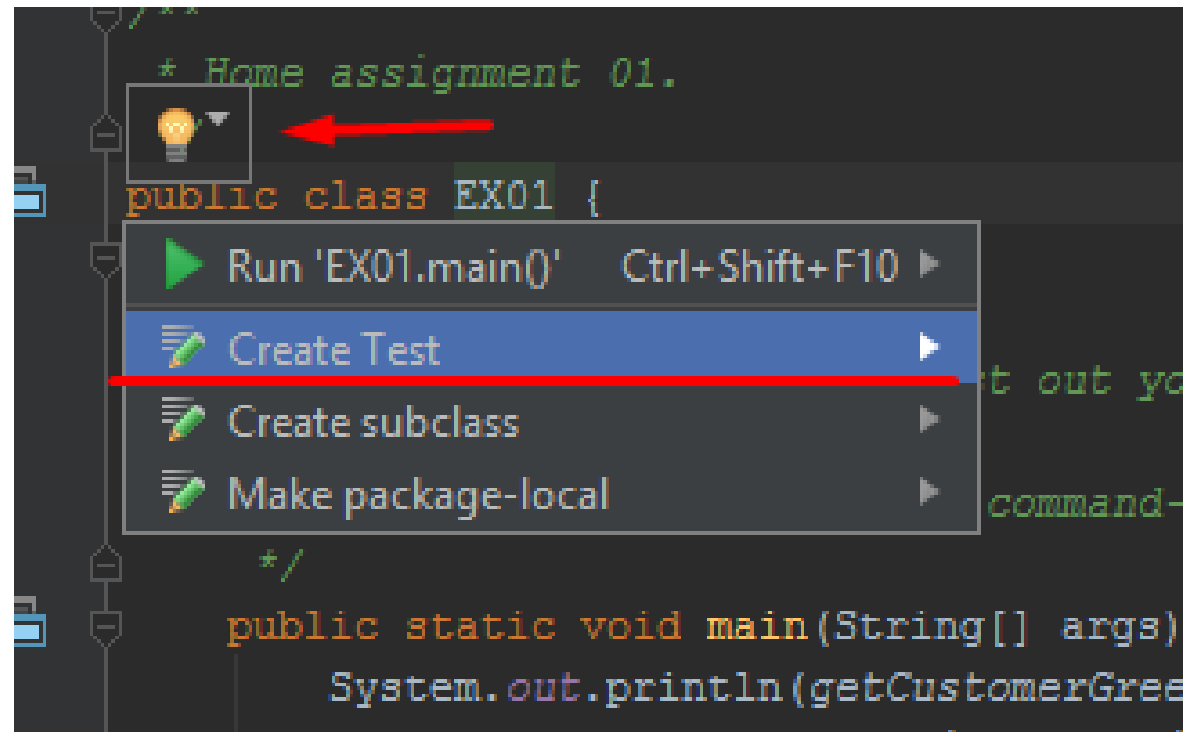


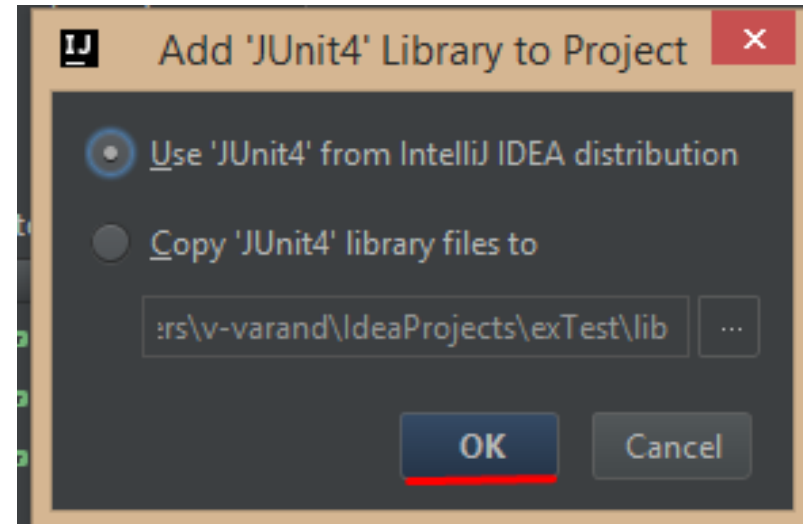
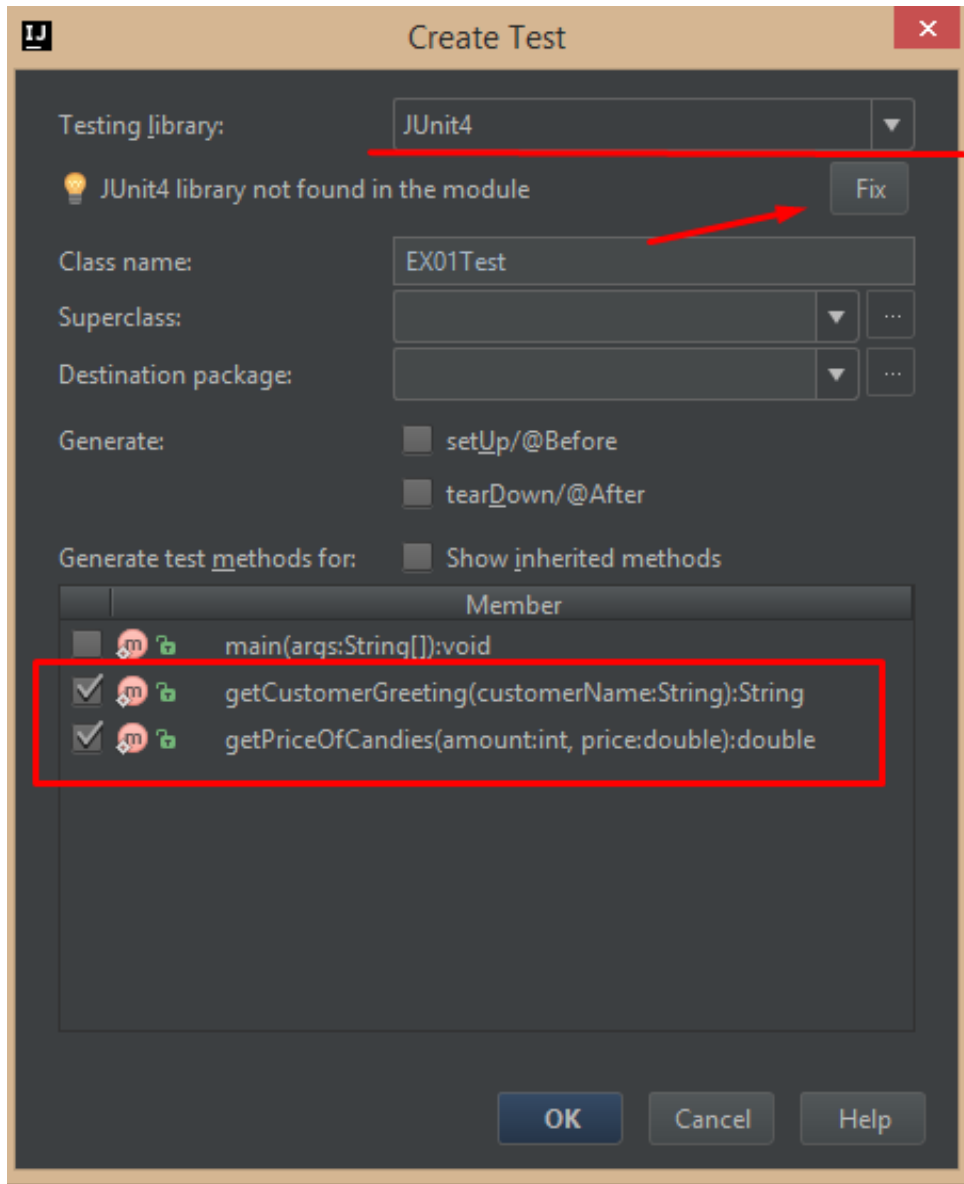
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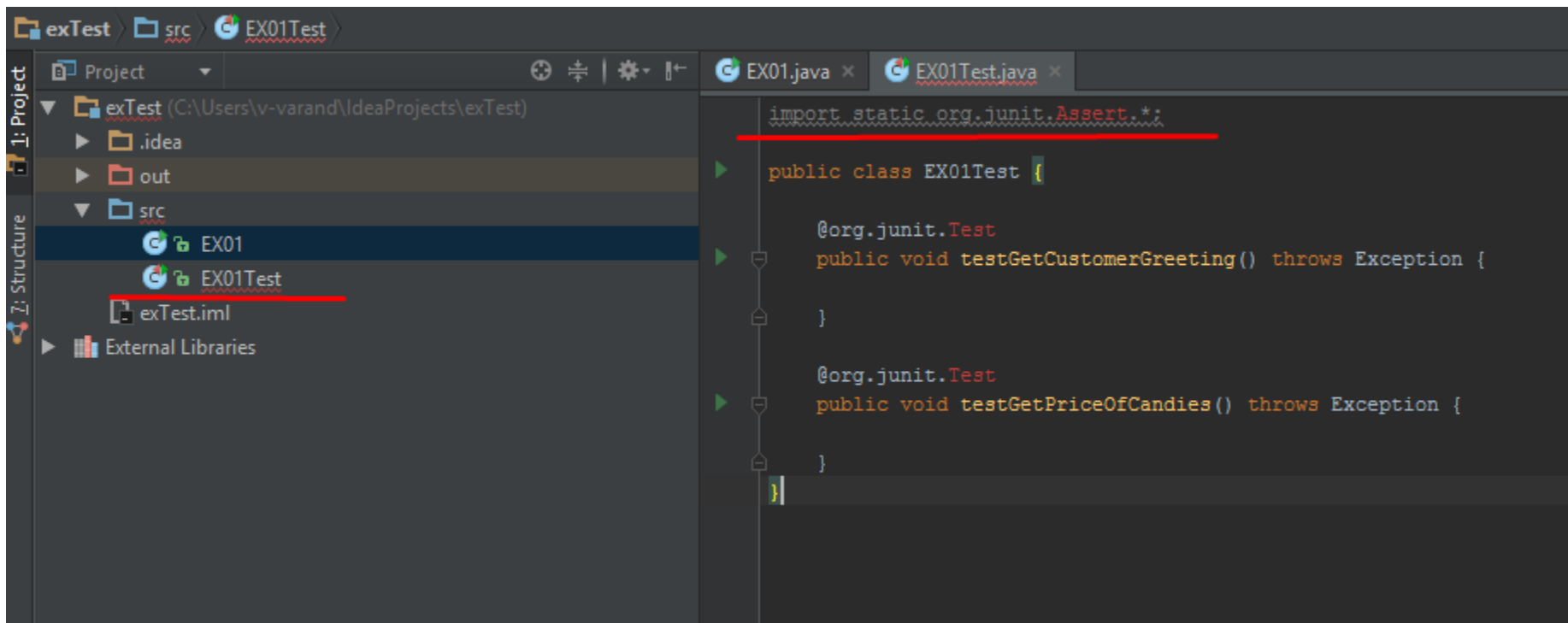
```
/**
 * Home assignment 01.
 */
public class Exp1 {
    /**
     * Entry-point of the program.
     * This is here so you can test out your code
     * with running this program.
     * @param args Arguments from command-line.
     */
    public static void main(String[] args) {
        System.out.println(getCustomerGreeting("Alice")); // => Hello Alice, nice to see you!
        System.out.println(getPriceOfCandies(5, 4.5)); // => 22.5
    }

    /**
     * Function that greets a customer by it's name
     * @param customerName The customer's name to greet
     * @return Greeting to the customer like Hello {customerName}, nice to see you!
     */
    public static String getCustomerGreeting(String customerName) {
        //Add your code here
        return null;
    }

    /**
     * Function that returns the total cost of candies
     * @param amount Amount of candies to buy
     * @param price Price of one candy
     * @return Total cost of the candies
     */
    public static double getPriceOfCandies(int amount, double price) {
        //add your code here
        return Double.NaN;
    }
}
```







```
EX01.java x EX01Test.java x
import static org.junit.Assert.*;

public class EX01Test {

    @org.junit.Test
    public void testGetCustomerGreeting() throws Exception {

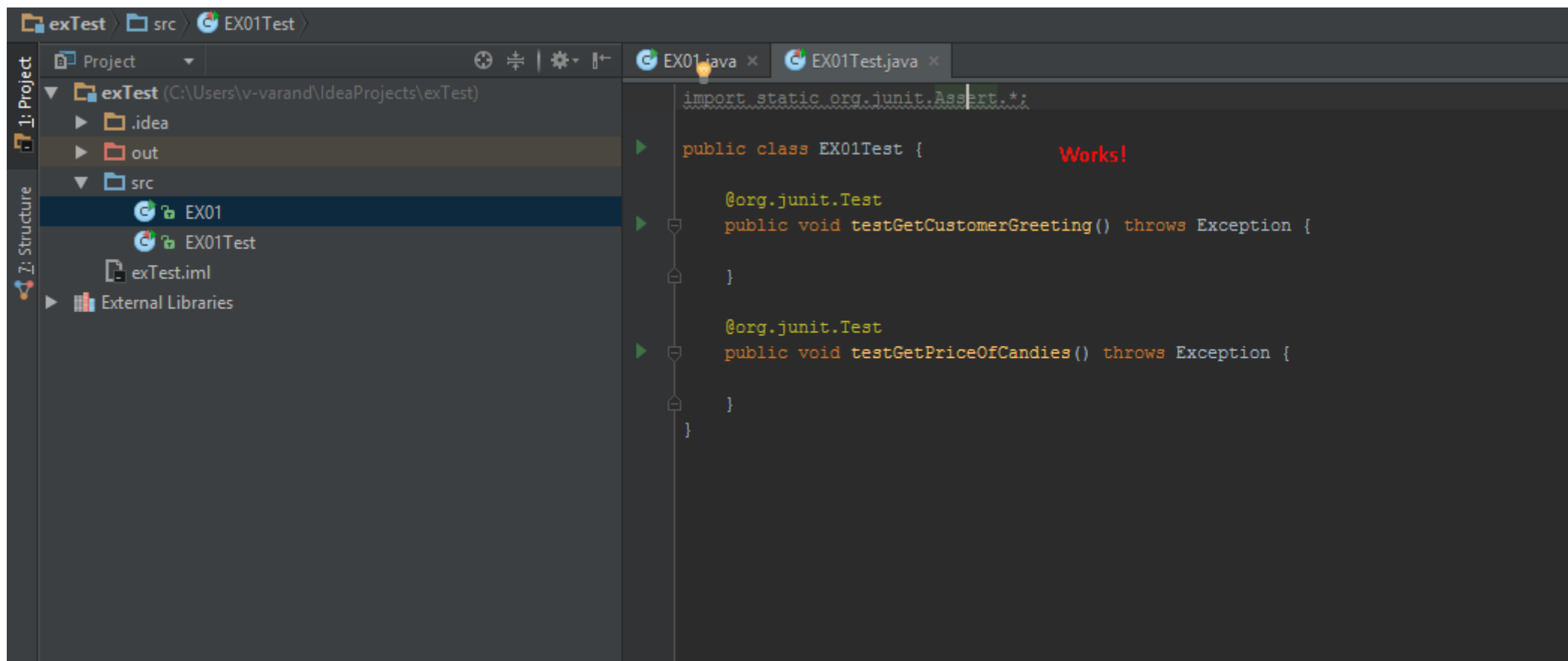
    }

    @org.junit.Test
    public void testGetPriceOfCandies() throws Exception {

    }
}
```

```
EX01.java x EX01Test.java x
import static org.junit.Assert.*;
Add library 'JUnit4' to classpath
Optimize imports
Enable 'Settings|Code Style|Imports|Optimize imports on the fly'
Create Test
}
```

No “red lines”, no error notifications



The screenshot shows an IDE interface with a project named 'exTest'. The 'Project' view on the left shows the directory structure: 'exTest' (C:\Users\v-varand\IdeaProjects\exTest) containing '.idea', 'out', and 'src'. The 'src' directory contains 'EX01' and 'EX01Test'. The 'Structure' view shows 'exTest.iml' and 'External Libraries'. The main editor window displays the code for 'EX01Test.java' with the following content:

```
import static org.junit.Assert.*;

public class EX01Test {

    @org.junit.Test
    public void testGetCustomerGreeting() throws Exception {

    }

    @org.junit.Test
    public void testGetPriceOfCandies() throws Exception {

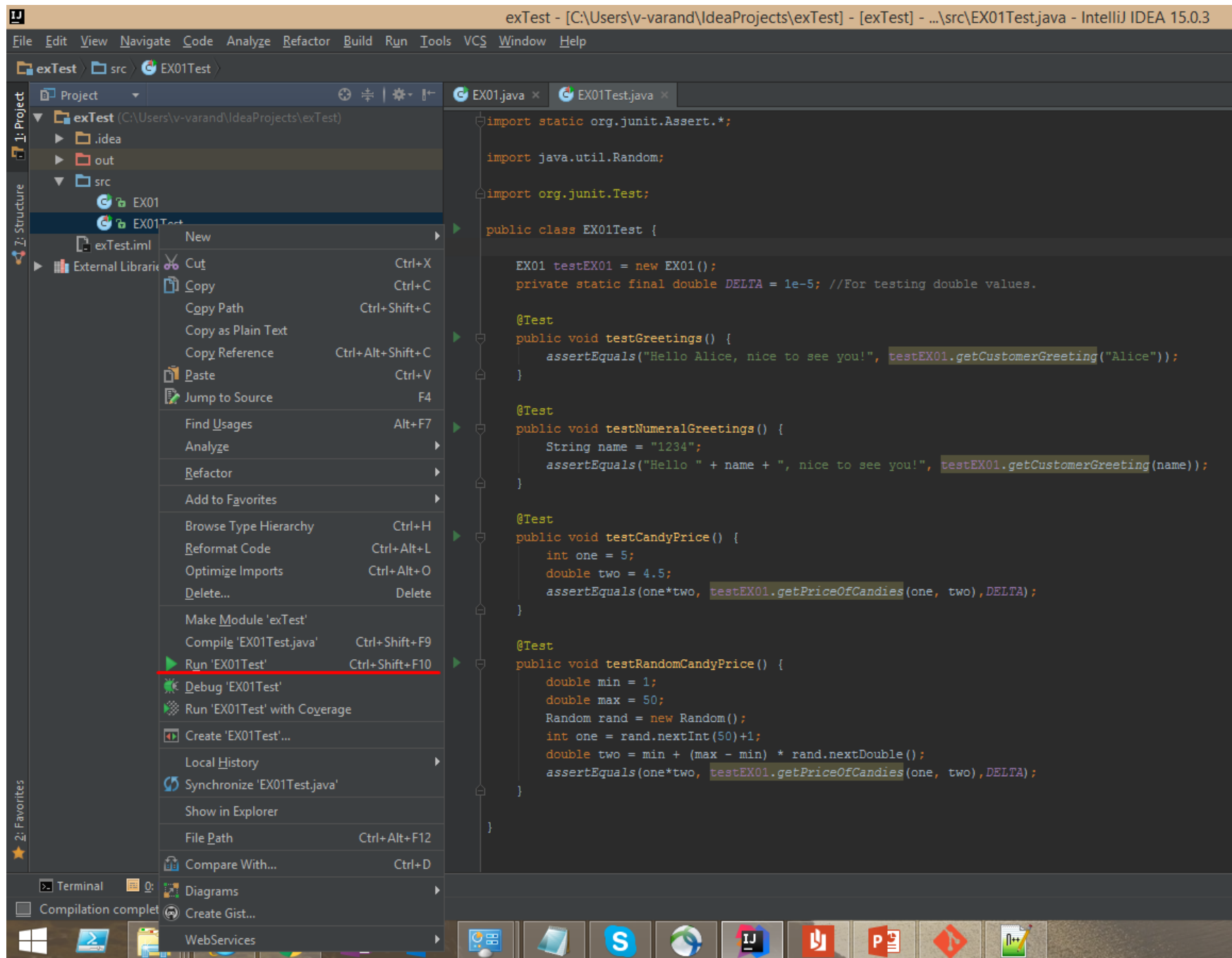
    }
}
```

The word "Works!" is written in red text next to the first test method signature. The code is syntactically correct and contains no error notifications or red lines.

Copy-Paste code from downloaded file to test class in project

```
1  import static org.junit.Assert.*;
2
3  import java.util.Random;
4
5  import org.junit.Test;
6
7  public class EX01Test {
8
9      EX01 testEX01 = new EX01();
10     private static final double DELTA = 1e-5; //For testing double values.
11
12     @Test
13     public void testGreetings() {
14         assertEquals("Hello Alice, nice to see you!", testEX01.getCustomerGreeting("Alice"));
15     }
16
17     @Test
18     public void testNumeralGreetings() {
19         String name = "1234";
20         assertEquals("Hello " + name + ", nice to see you!", testEX01.getCustomerGreeting(name));
21     }
22
23     @Test
24     public void testCandyPrice() {
25         int one = 5;
26         double two = 4.5;
27         assertEquals(one*two, testEX01.getPriceOfCandies(one, two),DELTA);
28     }
29
30     @Test
31     public void testRandomCandyPrice() {
32         double min = 1;
33         double max = 50;
34         Random rand = new Random();
35         int one = rand.nextInt(50)+1;
36         double two = min + (max - min) * rand.nextDouble();
37         assertEquals(one*two, testEX01.getPriceOfCandies(one, two),DELTA);
38     }
39 }
40
41
```

```
EX01.java x EX01Test.java x
import static org.junit.Assert.*;
import java.util.Random;
import org.junit.Test;
public class EX01Test {
    EX01 testEX01 = new EX01();
    private static final double DELTA = 1e-5; //For testing double values.
    @Test
    public void testGreetings() {
        assertEquals("Hello Alice, nice to see you!", testEX01.getCustomerGreeting("Alice"));
    }
    @Test
    public void testNumeralGreetings() {
        String name = "1234";
        assertEquals("Hello " + name + ", nice to see you!", testEX01.getCustomerGreeting(name));
    }
    @Test
    public void testCandyPrice() {
        int one = 5;
        double two = 4.5;
        assertEquals(one*two, testEX01.getPriceOfCandies(one, two),DELTA);
    }
    @Test
    public void testRandomCandyPrice() {
        double min = 1;
        double max = 50;
        Random rand = new Random();
        int one = rand.nextInt(50)+1;
        double two = min + (max - min) * rand.nextDouble();
        assertEquals(one*two, testEX01.getPriceOfCandies(one, two),DELTA);
    }
}
```

Results

Run EX01Test

All 4 tests failed – 42ms

Test Name	Duration
EX01Test	42ms
testCandyPrice	26ms
testGreetings	7ms
testNumeralGreetings	4ms
testRandomCandyPrice	5ms

```
"C:\Program Files\Java\jdk1.8.0_45\bin\java" ...  
  
java.lang.AssertionError:  
Expected :22.5  
Actual   :NaN  
<Click to see difference>  
  
<1 internal calls>  
at org.junit.Assert.failNotEquals (Assert.java:834) <2 internal calls>  
at EX01Test.testCandyPrice (EX01Test.java:27) <26 internal calls>
```

Terminal | 0: Messages | 4: Run | 6: TODO

Tests Failed: 0 passed, 4 failed (moments ago)

124:1 CRLF+ UTF-8+