```java
1 package demo.com;
2
3 import org.testng.Assert;
4 import org.testng.annotations.Test;
5
6 public class TestNGAssertionDemo {
7
8     @Test
9     public void testAssertions() {
10        // test data
11        String str1 = new String("TestNG");
12        String str2 = new String("TestNG");
13        String str3 = null;
14        String str4 = "TestNG";
15        String str5 = "TestNG";
16        String str6 = new String("Not_TestNG");
17
18        int val1 = 5;
19        int val2 = 6;
20
21        // Check that two objects are equal
22        Assert.assertEquals(str1, str2);
23        System.out.println("Equals Assertion is successful");
24
25        // Check that two objects are not equal
26        Assert.assertNotEquals(str1, str6);
27        System.out.println("NotEquals Assertion is successful");
28
29        // Check that a condition is true
30        Assert.assertTrue(val1 < val2);
31        System.out.println("True Assertion is successful");
32
33        // Check that a condition is false
34        Assert.assertFalse(val1 > val2);
35        System.out.println("False Assertion is successful");
36
37        // Check that an object isn't null
38        Assert.assertNotNull(str1);
39        System.out.println("Not Null Assertion is successful");
40
41        // Check that an object is null
42        Assert.assertNull(str3);
43
44        // Check if two object references point to the same object
45        Assert.assertSame(str4, str5);
46        System.out.println("Same Assertion is successful");
47
48        // Check if two object references not point to the same object
49        Assert.assertNotSame(str1, str3);
50        System.out.println("Not Same Assertion is successful");
51    }
52 }
```