





```
1 import static org.junit.Assert.assertEquals;
4
5 public class KmsToMiles {
6
7     CtoFService x = new CtoFService();
8
9     long y = x.mlToKm(1);
10
11     long test = (long) 1.721371;
12
13
14     @Test
15     public void testConversion() {
16         //System.out.println("@Test sum(): " + sum + " = " + testSum);
17         assertEquals(y, test);
18     }
19
20
21 }
22
```

Finished after 0.05 seconds

Runs: 1/1    Errors: 0    Failures: 1

**Failure Trace**

- java.lang.AssertionError: expected:<0> but was:<1>
- at KmsToMiles.testConversion(KmsToMiles.java:17)

The screenshot displays an IDE window with a Java file named `MilesToKmsTest.java`. The code defines a test class `MilesToKmsTest` with a `testConversion` method. The method uses `FtoCService` to convert miles to kilometers and asserts the result against a constant value of 1.60934. The IDE's output console shows that the test passed successfully after 0.039 seconds.

```
4
5+ /**
8
9- /**
10 *
11 *
12 */
13 public class MilesToKmsTest {
14
15
16
17     FtoCService x = new FtoCService();
18
19     long y = x.m1Tokms(1);
20
21     long test = (long) 1.60934;
22
23
24
25- @Test
26     public void testConversion() {
27         //System.out.println("@Test sum(): " + sum + " = " + testSum);
28         assertEquals(y, test);
29     }
30
31 }
```

Problems Servers Properties Console

JUnit

Finished after 0.039 seconds

Runs: 1/1 Errors: 0 Failures: 0

MilesToKmsTest [Runner: JUnit 4] (0.000 s) Failure Trace

The screenshot shows an IDE with a Java file named `MilesToKmsTest.java` open. The code defines a `MilesToKmsTest` class with a `testConversion` method. The method creates an `FtoCService` instance, calls `mlTokms(1)` to get a value `y`, and then asserts that `y` is equal to `2.60934`. The test fails because the actual value is `2` instead of `2.60934`.

```
4
5 /**
8
9 /**
10 *
11 *
12 */
13 public class MilesToKmsTest {
14
15
16     FtoCService x = new FtoCService();
17
18     long y = x.mlTokms(1);
19
20     long test = (long) 2.60934;
21
22
23
24
25 @Test
26 public void testConversion() {
27     //System.out.println("@Test sum(): " + sum + " = " + testSum);
28     assertEquals(y, test);
29 }
30
31 }
```

The IDE's output window shows the test results:

JUnit  
Finished after 0.05 seconds

Runs: 1/1   Errors: 0   Failures: 1

MilesToKmsTest [Runner: JUnit 4] (0.002 s)

- testConversion (0.002 s)

Failure Trace

```
java.lang.AssertionError: expected:<1> but was:<2>
at MilesToKmsTest.testConversion(MilesToKmsTest.java:28)
```