

Atividade 2 – Módulo 1

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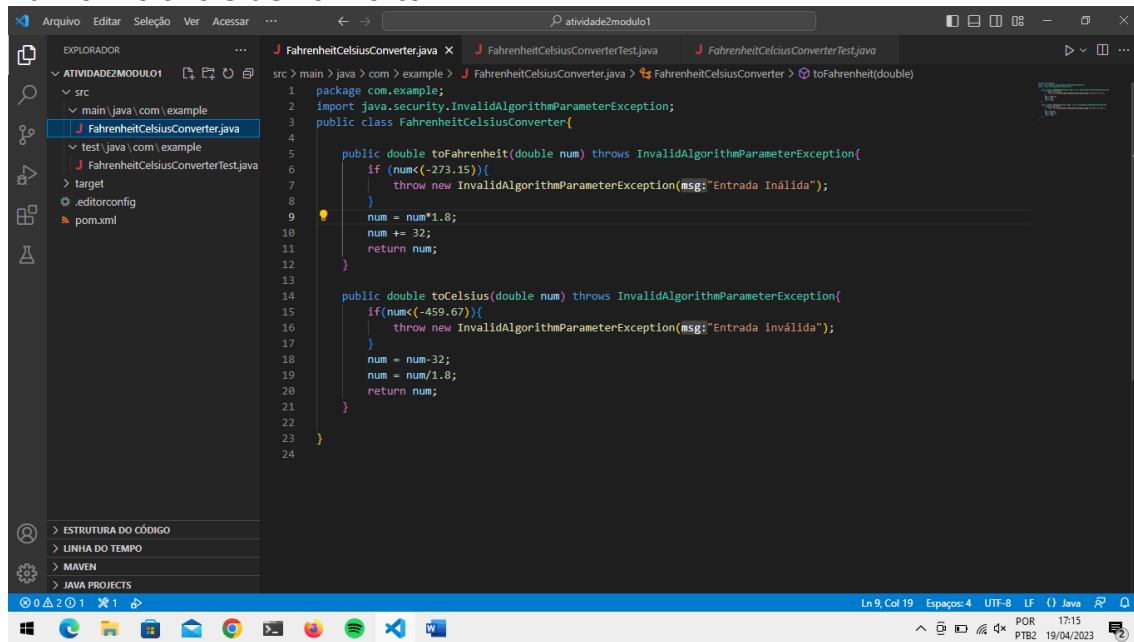
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Disciplina: Verificação e Validação

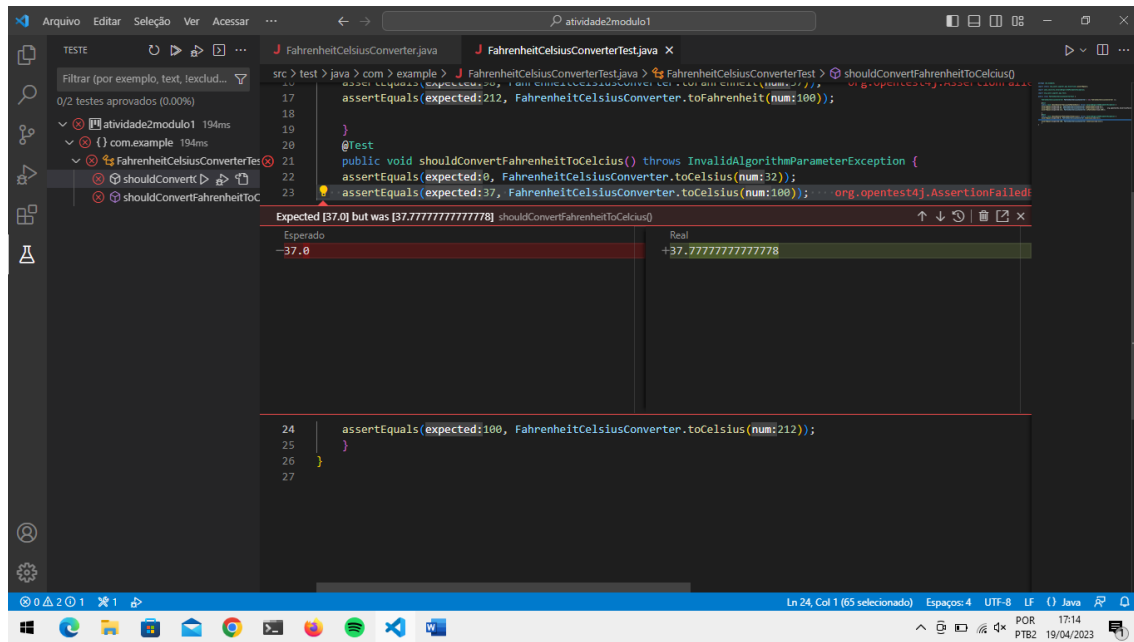
Questão 01

FahrenheitCelsiusConverter



```
1 package com.example;
2 import java.security.InvalidAlgorithmParameterException;
3 public class FahrenheitCelsiusConverter{
4
5     public double toFahrenheit(double num) throws InvalidAlgorithmParameterException{
6         if (num<(-273.15)){
7             throw new InvalidAlgorithmParameterException(msg;"Entrada Inválida");
8         }
9         num = num*1.8;
10        num += 32;
11        return num;
12    }
13
14    public double toCelsius(double num) throws InvalidAlgorithmParameterException{
15        if(num<(-459.67)){
16            throw new InvalidAlgorithmParameterException(msg;"Entrada inválida");
17        }
18        num = num-32;
19        num = num/1.8;
20        return num;
21    }
22
23 }
24 }
```

Report do JUnit na classe **FahrenheitCelsiusConverterTest**

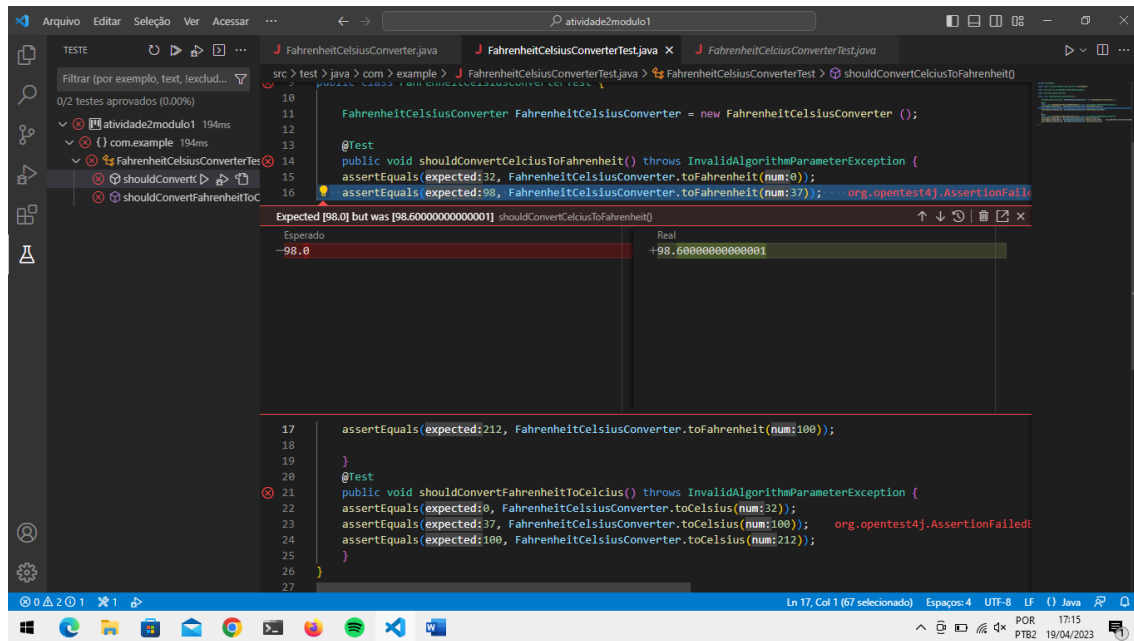


```
src > test > java > com > example > FahrenheitCelsiusConverterTest.java > FahrenheitCelsiusConverterTest > shouldConvertFahrenheitToCelsius()
assertEquals(expected:212, FahrenheitCelsiusConverter.toFahrenheit(num:100));
}
@Test
public void shouldConvertFahrenheitToCelsius() throws InvalidAlgorithmParameterException {
    assertEquals(expected:10, FahrenheitCelsiusConverter.toCelsius(num:32));
    assertEquals(expected:37, FahrenheitCelsiusConverter.toCelsius(num:100)); org.opentest4j.AssertionFailedError: Expected [37.0] but was [37.77777777777778] shouldConvertFahrenheitToCelsius()
    assertEquals(expected:100, FahrenheitCelsiusConverter.toCelsius(num:212));
}
}
```

Expected [37.0] but was [37.77777777777778] shouldConvertFahrenheitToCelsius()

Esperado	Real
-37.0	+37.77777777777778

Ln 24, Col 1 (65 selecionado) Espaços: 4 UTF-8 LF Java POR 17:14 19/04/2023



```
src > test > java > com > example > FahrenheitCelsiusConverterTest.java > FahrenheitCelsiusConverterTest > shouldConvertCelsiusToFahrenheit()
FahrenheitCelsiusConverter fahrenheitCelsiusConverter = new FahrenheitCelsiusConverter ();
@Test
public void shouldConvertCelsiusToFahrenheit() throws InvalidAlgorithmParameterException {
    assertEquals(expected:32, FahrenheitCelsiusConverter.toFahrenheit(num:0));
    assertEquals(expected:98, FahrenheitCelsiusConverter.toFahrenheit(num:37)); org.opentest4j.AssertionFailedError: Expected [98.0] but was [98.60000000000001] shouldConvertCelsiusToFahrenheit()
    assertEquals(expected:212, FahrenheitCelsiusConverter.toFahrenheit(num:100));
}
@Test
public void shouldConvertFahrenheitToCelsius() throws InvalidAlgorithmParameterException {
    assertEquals(expected:10, FahrenheitCelsiusConverter.toCelsius(num:32));
    assertEquals(expected:37, FahrenheitCelsiusConverter.toCelsius(num:100));
    assertEquals(expected:100, FahrenheitCelsiusConverter.toCelsius(num:212));
}
}
```

Expected [98.0] but was [98.60000000000001] shouldConvertCelsiusToFahrenheit()

Esperado	Real
-98.0	+98.60000000000001

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