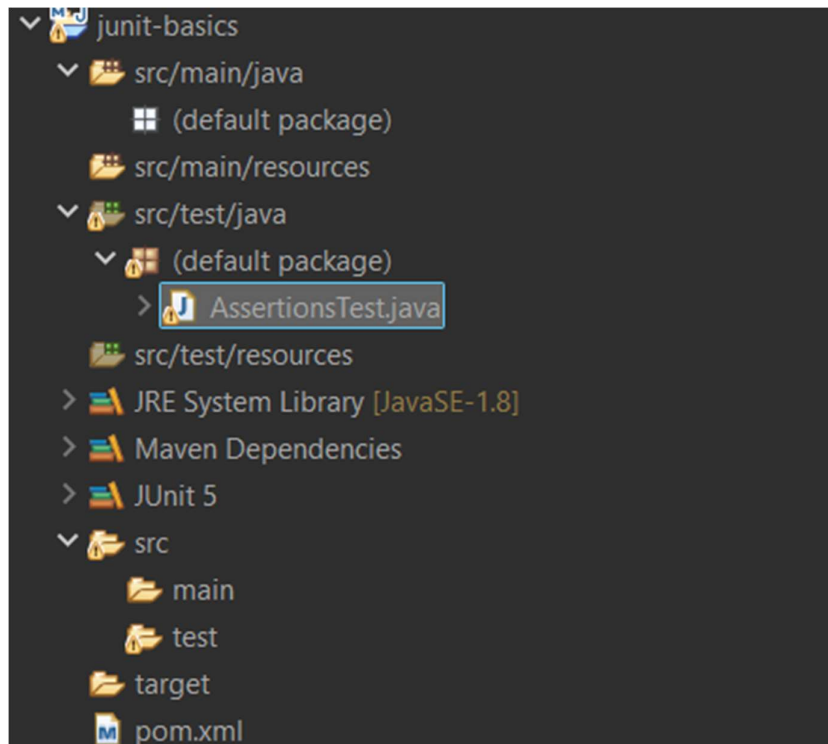


Exercise 3: Assertions in Junit

Overview

This project demonstrates the use of various JUnit 5 assertions to validate test results in a Java application. The AssertionsTest class contains individual test methods, each showcasing a different JUnit assertion

(assertEquals, assertTrue, assertFalse, assertNull, assertNotNull, assertSame, assertNotSame, assertEquals, and assertThrows). The project is configured to run in Eclipse IDE with Maven .



AssertionsTest.java :

```
import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;

public class AssertionsTest {

    @Test
    public void testAssertEquals() {
        assertEquals(5, 2 + 3, "2 + 3 should equal 5");
    }
}
```

```
}
```

```
@Test
public void testAssertTrue() {
    assertTrue(5 > 3, "5 should be greater than 3");
}
```

```
@Test
public void testAssertFalse() {
    assertFalse(5 < 3, "5 should not be less than 3");
}
```

```
@Test
public void testAssertNull() {
    assertNull(null, "Object should be null");
}
```

```
@Test
public void testAssertNotNull() {
    assertNotNull(new Object(), "Object should not be null");
}
```

```
@Test
public void testAssertSame() {
    String str = "Hello";
    assertSame(str, str, "Should be the same object");
}
```

```
@Test
public void testAssertNotSame() {
    assertNotSame(new String("Hello"), new String("Hello"), "Should be different
objects");
}
```

```
@Test
public void testAssertArrayEquals() {
    int[] expected = {1, 2, 3};
    int[] actual = {1, 2, 3};
    assertEquals(expected, actual, "Arrays should be equal");
}
```

```
@Test
public void testAssertThrows() {
    assertThrows(ArithmeticException.class, () -> {
        int result = 1 / 0;
    }, "Division by zero should throw ArithmeticException");
}
}
```

superset id: 6405870

OUTPUT:

