**Exercise 3**

Assertions in JUnit Scenario: You need to use different assertions in JUnit to validate your test results. Steps: 1. Write tests using various JUnit assertions. Solution Code: public class AssertionsTest { @Test public void testAssertions() { // Assert equals assertEquals(5, 2 + 3); // Assert true assertTrue(5 > 3); // Assert false assertFalse(5 < 3); // Assert null assertNull(null); // Assert not null assertNotNull(new Object()); } }

**Program**

public class Main {

public static void main(String[] args) {

try {

if (5 != 2 + 3) throw new AssertionError("assertEquals failed");

if (!(5 > 3)) throw new AssertionError("assertTrue failed");

if (5 < 3) throw new AssertionError("assertFalse failed");

Object obj = null;

if (obj != null) throw new AssertionError("assertNull failed");

if (new Object() == null) throw new AssertionError("assertNotNull failed");

System.out.println(" All assertions passed (simulated JUnit)");

} catch (AssertionError e) {

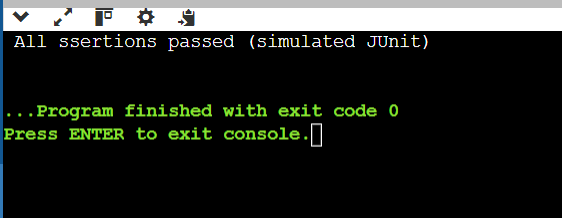
System.out.println(" Test failed: " + e.getMessage());

}

}

}

**Output**

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