```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
https://maven.apache.org/xsd/maven-4.0.0.xsd">
<modelVersion>4.0.0</modelVersion>
<groupId>my.unit.test</groupId>
<artifactId>unit-test-assignment</artifactId>
<version>0.0.1-SNAPSHOT</version>
properties>
<dependency>
<groupId>com.google.guava</groupId>
<artifactId>guava</artifactId>
<version>30.1.1-jre</version>
</dependency>
<groupId>org.junit.jupiter</groupId>
<artifactId>junit-jupiter</artifactId>
<version>5.7.2</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.assertj</groupId>
<artifactId>assertj-core</artifactId>
<version>3.20.2</version>
<scope>test</scope>
</dependency>
<dependency>
<groupId>org.mockito</groupId>
<artifactId>mockito-junit-jupiter</artifactId>
<version>3.11.2</version>
<scope>test</scope>
</dependency>
</dependencies>
<build>
<plugins>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.8.1
<configuration>
```

```
<source>${java.version}</source>
<target>${java.version}</target>
</configuration>
</plugin>
</plugins>
</puild>
</project>
```

```
package com.promineotech;
mport java.util.Random;
oublic class TestDemo {
public int addPositive(int a, int b) {
      if(a>=0 \&\& b>=0) {
              int sum = a + b;
              System.out.println(sum);
              return sum;
       } else {
              throw new IllegalArgumentException("Both parameters must be positive!");
       int getRandomInt() {
               Random random = new Random();
              return random.nextInt(10) + 1;
       public int randomNumberSquared() {
              int randomNumber = getRandomInt();
              int randomNumberSquared = randomNumber * randomNumber;
              return randomNumberSquared;
       }
```

```
package com.promineotech;
import static org.assertj.core.api.Assertions.assertThat;
import static org.assertj.core.api.Assertions.assertThatThrownBy;
import static org.mockito.Mockito.doReturn;
import static org.mockito.Mockito.spy;
import static org.mockito.Mockito.spy;
import java.util.stream.Stream;
import org.junit.jupiter.params.provider.Arguments;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Disabled;
import org.junit.jupiter.api.Test;
import org.junit.jupiter.params.ParameterizedTest;
import org.junit.jupiter.params.provider.MethodSource;
class TestDemoJUnitTest {
    TestDemo testDemo;
    @BeforeEach
```

```
void setUp() throws Exception {
               testDemo = new TestDemo();
       @ParameterizedTest
       @MethodSource("com.promineotech.TestDemoJUnitTest#argumentsForAddPositive")
        void assertThatTwoPositiveNumbersAreAddedCorrectly(int a, int b, int expected, boolean
exceptException) {
               if (!exceptException) {
                       assertThat(testDemo.addPositive(a, b)).isEqualTo(expected);
               } else
                       assertThatThrownBy(() -> testDemo.addPositive(a,
b)).isInstanceOf(IllegalArgumentException.class);
       static Stream<Arguments> argumentsForAddPositive() {
               return Stream.of(Arguments.of(1, 2, 3, false),
               Arguments.of(2, 4, 6, false),
               Arguments.of(3, 6, 9, false),
               Arguments.of(2, -4, 6, true),
               Arguments.of(0, 3, 3, false)
               );
       }
       @Test
       @Disabled
        void assertThatPairsOfPositiveNumbersAreAddedCorrectly() {
               TestDemo mockDemo = spy(testDemo);
               doReturn(5).when(mockDemo).getRandomInt();
               int fiveSquared = mockDemo.randomNumberSquared();
               assertThat(fiveSquared).isEqualTo(25);
               assertThat(testDemo.addPositive(4,5)).isEqualTo(9);
               assertThat(testDemo.addPositive(40,50)).isEqualTo(90);
       }
```