Exercise 2: Verifying Interactions Scenario: You need to ensure that a method is called with specific arguments. Steps: 1. Create a mock object. 2. Call the method with specific arguments.

DataUploder.java

package com.mockito;

public class DataUploader {

private final NetworkClient client;

public DataUploader(NetworkClient client) {

this.client = client;

}

public void performUpload() {

client.upload("TestPayload");

}

}

NetworkClient.java

package com.mockito;

public interface NetworkClient {

void upload(String payload);

}

POM.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"

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>Verify</groupId>

<artifactId>VerifyingInteractions</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<!-- JUnit 5 (Jupiter) for testing -->

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter</artifactId>

<version>5.10.0</version>

<scope>test</scope>

</dependency>

<!-- Mockito core library -->

<dependency>

<groupId>org.mockito</groupId>

<artifactId>mockito-core</artifactId>

<version>5.11.0</version>

<scope>test</scope>

</dependency>

</dependencies>

<build>

<plugins>

<!-- Maven Surefire Plugin to run JUnit 5 tests -->

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-surefire-plugin</artifactId>

<version>3.2.5</version>

<configuration>

<useModulePath>false</useModulePath>

</configuration>

</plugin>

</plugins>

</build>

</project>

TestdataUploader.java

package com.mockito;

import static org.mockito.Mockito.\*;

import org.junit.jupiter.api.Test;

import org.mockito.Mockito;

public class TestDataUploader {

@Test

public void testUploadCalledWithCorrectArgument() {

// Step 1: Create mock

NetworkClient mockClient = Mockito.mock(NetworkClient.class);

// Step 2: Call method with specific argument

DataUploader uploader = new DataUploader(mockClient);

uploader.performUpload();

// Step 3: Verify interaction

verify(mockClient).upload("TestPayload");

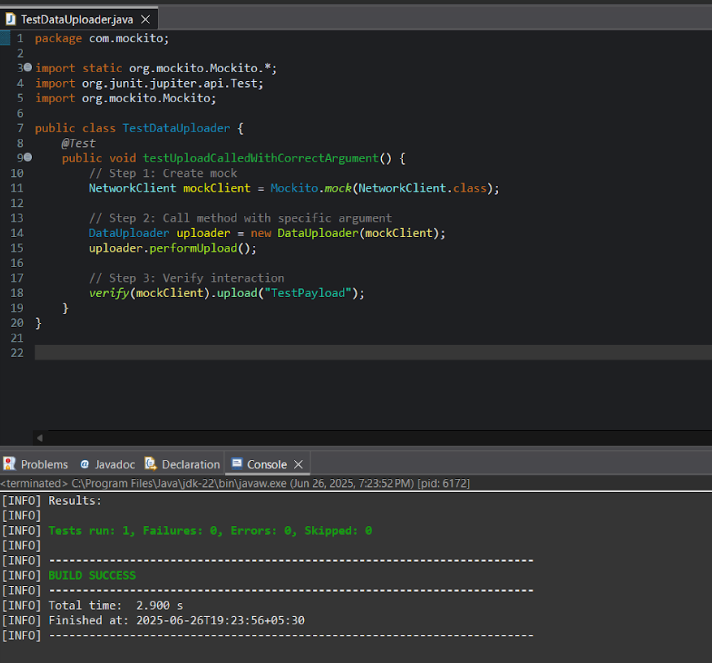
}

}

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