Mockito Hands-On Exercises

**Exercise 3: Argument Matching**

**Scenario:**

You need to verify that a method is called with specific arguments.

**Code:**

**ArgumentMatcherTest.java**

package com.example;

import static org.mockito.Mockito.\*;

import static org.junit.jupiter.api.Assertions.\*;

import static org.mockito.ArgumentMatchers.\*;

import org.junit.jupiter.api.Test;

public class ArgumentMatcherTest {

@Test

public void testArgumentMatching() {

**// Step 1: Create a mock object**

ExternalApi mockApi = mock(ExternalApi.class);

**// Stub with argument matcher**

when(mockApi.getDataById(anyInt())).thenReturn("Data for any ID");

**// Step 2: Use the mock in service**

MyServiceWithId service = new MyServiceWithId(mockApi);

**// Step 3: Call the method with a specific argument**

String result = service.fetchData(42);

**// Assert the result**

assertEquals("Data for any ID", result);

**// Step 4: Verify the method was called with the correct argument**

verify(mockApi).getDataById(eq(42));

}}

**ExternalApi.java**

package com.example;

public interface ExternalApi {

String getData();

String getDataById(int id); // new method for argument matching

}

**MyServiceWithId.java**

package com.example;

public class MyServiceWithId {

private ExternalApi api;

public MyServiceWithId(ExternalApi api) {

this.api = api;

}

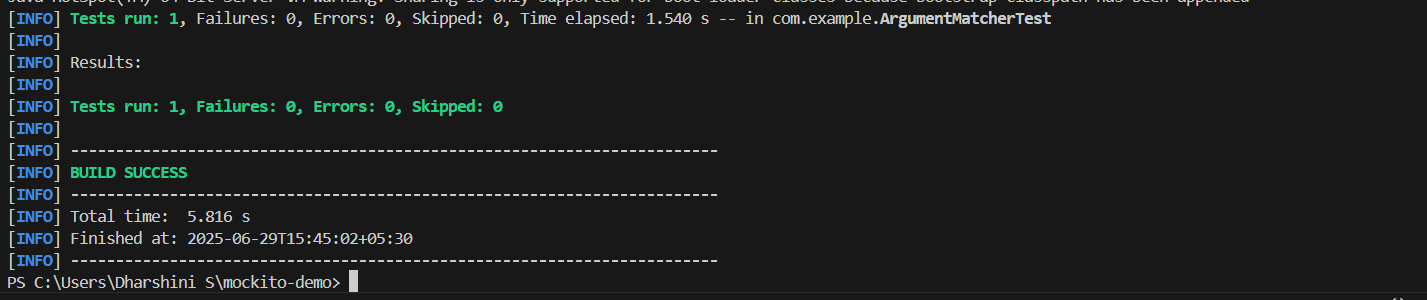
public String fetchData(int id) {

return api.getDataById(id);

}

}

**Output:**

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