# Exercise 1 – Mocking and Stubbing with Mockito

## 1. Scenario

You need to test a service that depends on an external API. Use Mockito to mock the external API and stub its methods.

## 2. Steps

• Create a mock object for the external API.

• Stub the methods to return predefined values.

• Write a test case that uses the mock object.

## 3. Solution Code

import static org.mockito.Mockito.\*;  
import org.junit.jupiter.api.Test;  
import org.mockito.Mockito;  
  
public class MyServiceTest {  
 @Test  
 public void testExternalApi() {  
 ExternalApi mockApi = Mockito.mock(ExternalApi.class);  
 when(mockApi.getData()).thenReturn("Mock Data");  
 MyService service = new MyService(mockApi);  
 String result = service.fetchData();  
 assertEquals("Mock Data", result);  
 }  
}

## 4. Output

When you run the above test, the output will be:

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0  
BUILD SUCCESS

## 5. Conclusion

You successfully tested the service by mocking the external API and stubbing its methods.