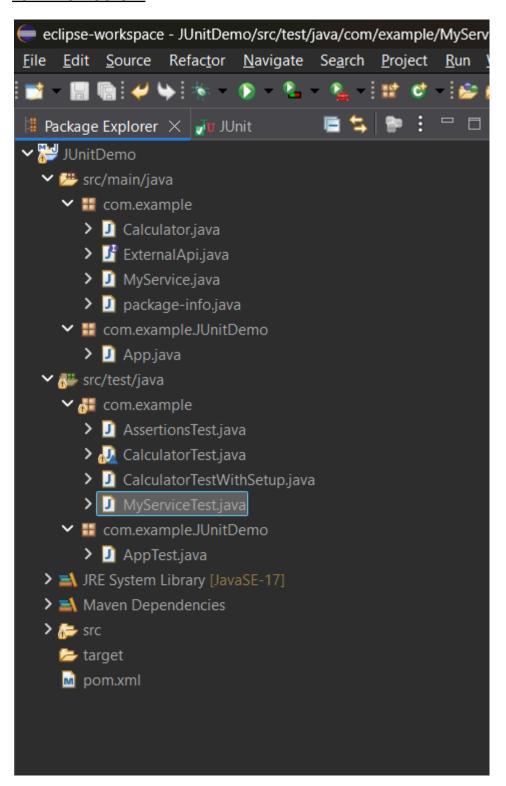
Mockito Hands-On Exercises

Exercise 1: Mocking and Stubbing

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

FOLDER STRUCTURE



ExternalApi.java

```
package com.example;
public interface ExternalApi {
   String getData();
}
```

MyService.java

```
package com.example;
public class MyService {
    private ExternalApi api;
public MyService(ExternalApi api) {
        this.api = api;
    }
public String fetchData() {
        return api.getData(); // calls the external API
    }
}
```

MyServiceTest.java

```
package com.example;
import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.*;
import static org.mockito.Mockito.*;
public class MyServiceTest {
    @Test
    public void testExternalApi() {
        // Mock the ExternalApi
        ExternalApi mockApi = mock(ExternalApi.class);
```

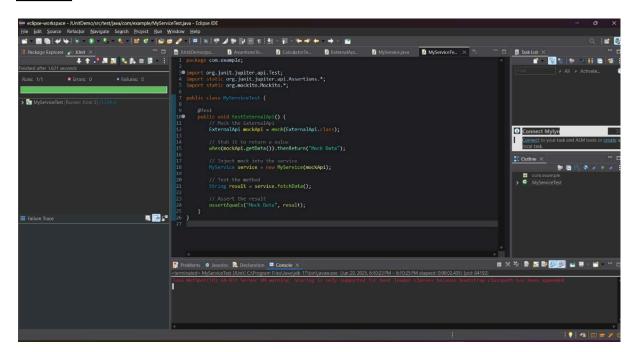
```
when(mockApi.getData()).thenReturn("Mock Data");

MyService service = new MyService(mockApi);

String result = service.fetchData();

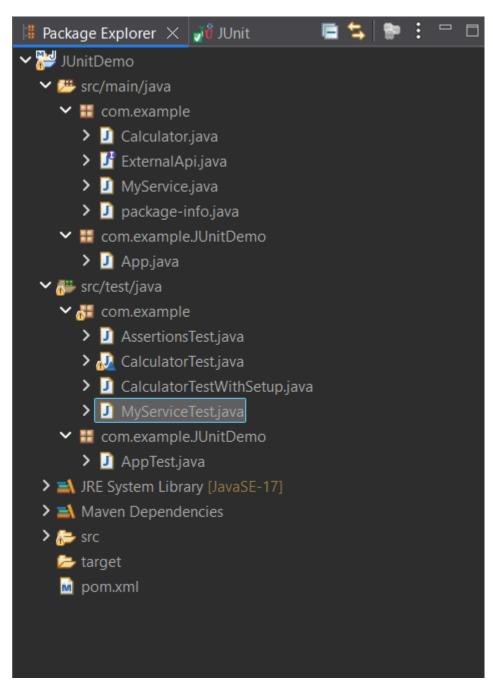
assertEquals("Mock Data", result);
}
```

OUTPUT



Exercise 2: Verifying Interactions

Scenario: You need to ensure that a method is called with specific arguments.



MyServiceTest.java

package com.example;

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.*;

```
public class MyServiceTest {
  @Test
  public void testVerifyInteraction() {
  ExternalApi mockApi = mock(ExternalApi.class);
  MyService service = new MyService(mockApi);
  service.fetchData();
  verify(mockApi).getData();
  }
}
```

OUTPUT

