

MOCKITO EXERCISE

MyServiceTest1.java

```
package org.example;

import org.junit.jupiter.api.Test;
import static org.junit.jupiter.api.Assertions.assertEquals;
import static org.mockito.Mockito.*;

public class MyServiceTest1 {

    @Test
    void testExternalApi() {

        ExternalApi mockApi = mock(ExternalApi.class);

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

        MyService service = new MyService(mockApi);

        String result = service.fetchData();

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

ExternalApi.java

```
package org.example;

public class ExternalApi {

    public String getData() {

        // This would normally call an external system

        return "Real Data";
    }
}
```

MyService.java

```
package org.example;

public class MyService {

    private final ExternalApi api;

    public MyService(ExternalApi api) {

        this.api = api;
    }

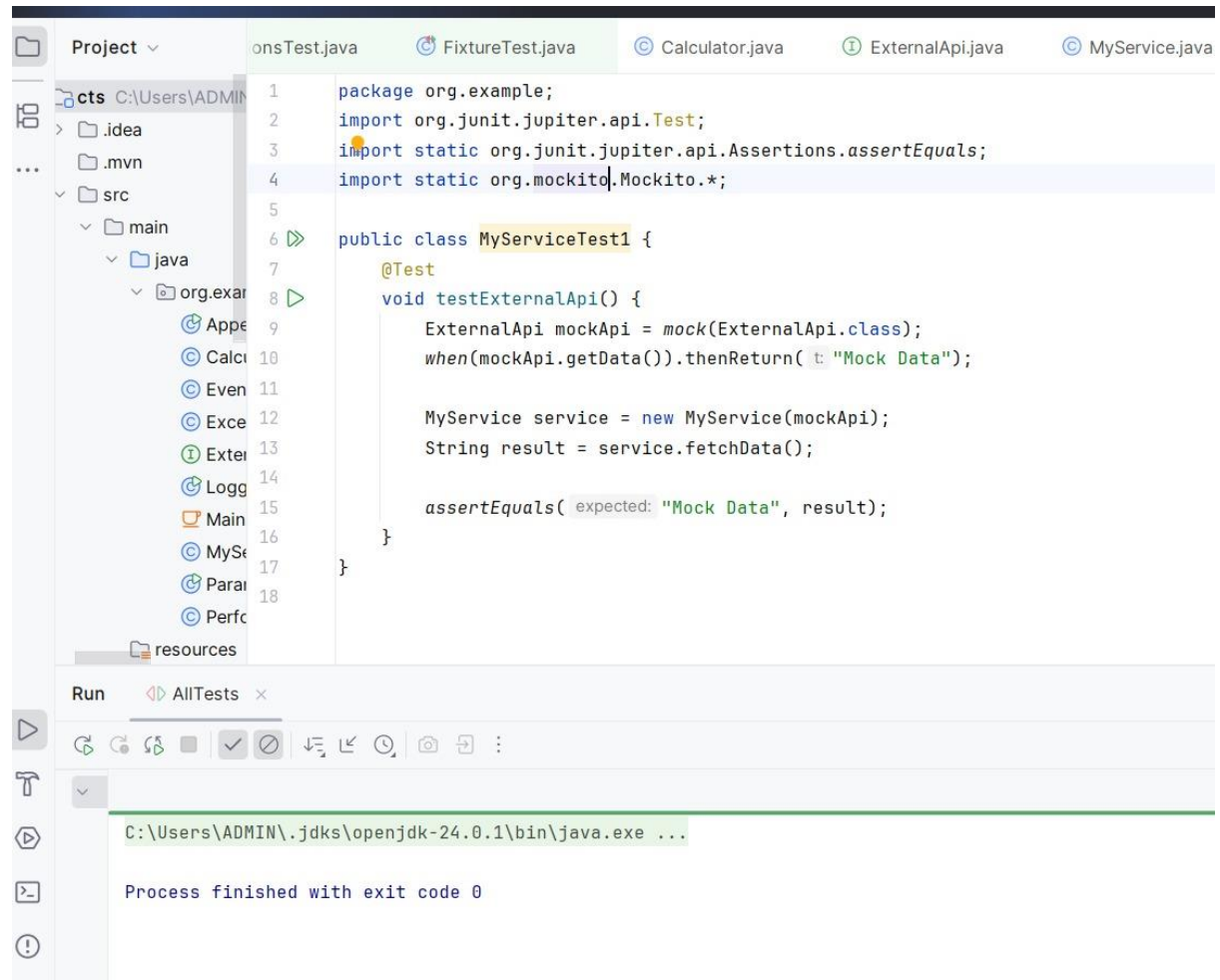
    public String fetchData() {
```

```

        return api.getData();
    }
}

```

OUTPUT:



MyServiceTest2.java

```

package org.example;

import org.example.ExternalApi;
import org.example.MyService;
import org.junit.jupiter.api.Test;
import static org.mockito.Mockito.*;

public class MyServiceTest2 {

    @Test
    void testVerifyInteraction() {

        ExternalApi mockApi = mock(ExternalApi.class);
    }
}

```

```

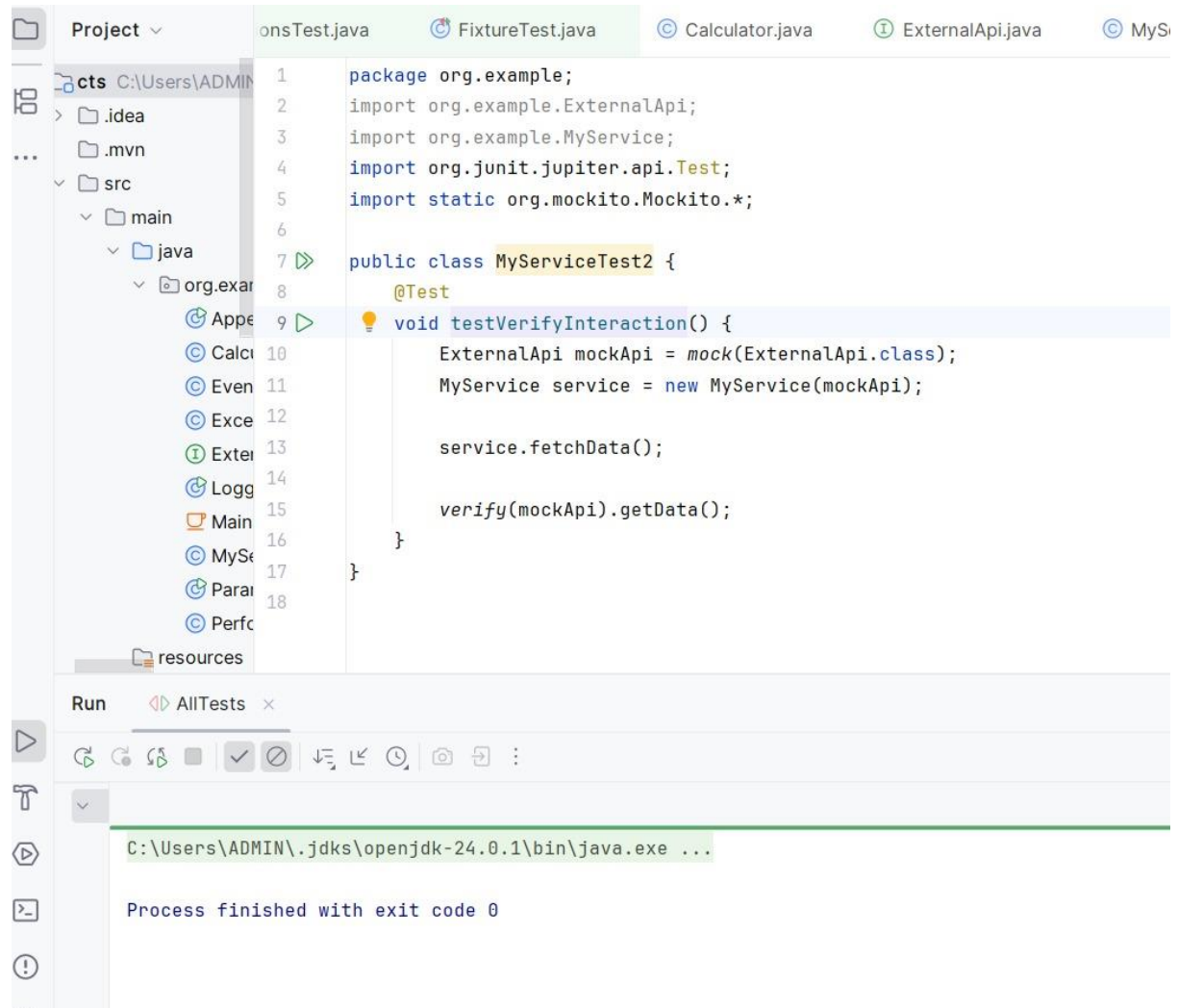
    MyService service = new MyService(mockApi);

    service.fetchData();

    verify(mockApi).getData(); // Verifies that getData() was called once
}
}

```

OUTPUT:



ArgumentMatchingTest.java:

```

import org.junit.jupiter.api.Test;

import static org.mockito.Mockito.*;

import static org.mockito.ArgumentMatchers.anyString;

public class ArgumentMatchingTest {

    interface UserApi {

        void login(String username);
    }
}

```

```

    }

    @Test

    void testArgumentMatching() {

        UserApi api = mock(UserApi.class);

        api.login("admin");

        verify(api).login(anyString()); // Verifies login() was called with any string

    }

}

```

OUTPUT:

