Mockito Hands-On Exercises:

Exercise 1: Mocking and Stubbing

```
//Externalapi.java
public interface ExternalApi {
   String getdata();
}
```

```
Myservice.java

public class MyService {
    private ExternalApi externalApi;
    public MyService(ExternalApi externalApi) {
        this.externalApi = externalApi;
    }

    public String fetchData() {
        return externalApi.getdata();
    }
}
```

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

public class MyServiceTest {

    @Test
    public void testExternalApi() {
        // Step 1: Create mock object
        ExternalApi mockApi = mock(ExternalApi.class);

        // Step 2: Stub the method
        when(mockApi.getdata()).thenReturn("Mock Data");

        // Step 3: Inject mock into service
        MyService service = new MyService(mockApi);

        // Call method and assert result
        String result = service.fetchData();
        assertEquals("Mock Data", result);
    }
}
```

```
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 <version>0.0.1-SNAPSHOT
```

Output:

```
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```

Exercise 2: Verifying Interactions:

Output:

