**Week-2: (Module 4)**

**TDD using JUnit5 and Mockito**

**Exercise 1: Mocking and Stubbing**

**ExternalApijava**

public interface ExternalApi {  
 String getData();  
}

**MyService.java**

public class MyService {  
 private ExternalApi api;  
 public MyService(ExternalApi api){  
 this.api=api;  
 }  
 public String fetchData(){  
 return api.getData();  
 }  
}

**MyServiceTest.java**

import org.junit.jupiter.api.Test;  
import static org.mockito.Mockito.\*;  
import static org.junit.jupiter.api.Assertions.\*;  
  
public class MyServiceTest {  
  
 @Test  
 public 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);  
 }  
}

Output:

