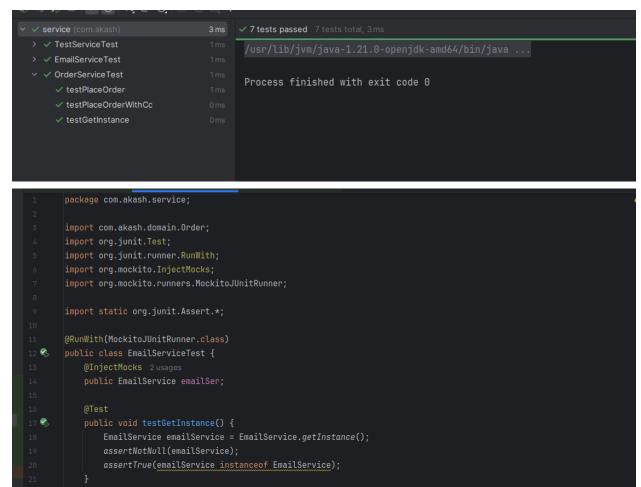
Assignment - JUNIT - Basics

Q1)Write the unit tests for following: OrderService.java EmailService.java Find the code base here. https://github.com/nitin-singh-0208/unit-testing



```
@Test
public void testSendEmail() {
    Order order = new Order( quantity: 1, itemName: "Test Item", price: 100.8);
    order.setCustomerNotified(true);
    try {
        emailSer.sendEmail(order);
        assertFalse(order.isCustomerNotified());
    } catch (RuntimeException e) {
        assertTrue(e instanceof RuntimeException);
    }
}

@Test
public void testSendEmailWithAttachment() {
    Order order = new Order( quantity: 1, itemName: "Test Item", price: 100.0);
    order.setCustomerNotified(false);
    boolean result = emailSer.sendEmail(order, cc: "123");
    assertTrue(order.isCustomerNotified());
    assertTrue(result);
}
```

```
package com.akash.service;

import com.akash.domain.Order;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.mockito.runners.MockitoJUnitRunner;

import static org.junit.Assert.*;

@RunWith(MockitoJUnitRunner.class)
public class OrderServiceTest {

@Test
public void testGetInstance() {
    OrderService orderService = OrderService.getInstance();
    assertNotNull(orderService);
    assertTrue(orderService instanceof OrderService);
}
```

```
public class OrderServiceTest {

@Test
public void testPlaceOrderWithCc() {
    OrderService orderService = OrderService.getInstance();
    Order order = new Order( quantity: 1, itemName: "Test Item", price: 190.0);
    order.setCustomerNotified(false);
    boolean testCc = orderService.placeOrder(order, cc: "Test CC");
    assertTrue(corder.isCustomerNotified());
    assertEquals( expected: 120.0, order.getPriceWithTax(), deMai 0.01);
}

@Test
public void testPlaceOrder() {
    OrderService orderService = OrderService.getInstance();
    Order order = new Order( quantity: 1, itemName: "Test Item", price: 100.0);
    order.setCustomerNotified(true);
    try {
        orderService.placeOrder(order);
        assertEquals( expected: 120.0, order.getPriceWithTax(), deMai 0.01);
    } casertEquals( expected: 120.0, order.getPriceWithTax(), deMai 0.01);
    } casertEquals( expected: 120.0, order.getPriceWithTax(), deMai 0.01);
    } catch (Exception e) {
        assertTrue(e instanceof RuntimeException);
    }
}
```

```
package com.akash.service;

import org.junit.Test;
import org.mockito.InjectMocks;
import org.mockito.runners.MockitoJUnitRunner;

import static org.junit.Assert.assertEquals;

@RunWith(MockitoJUnitRunner.class)

public class TestServiceTest {
    @InjectMocks 1 usage
    TestService testService;

@Test

public void testFirstMethod() {
    assertEquals( expected 1, testService.test());
    }

}
```