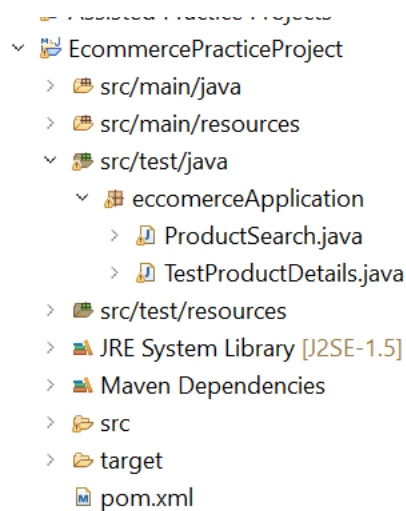


Phase-2 Practice Project - 2

E-Commerce Practice Project

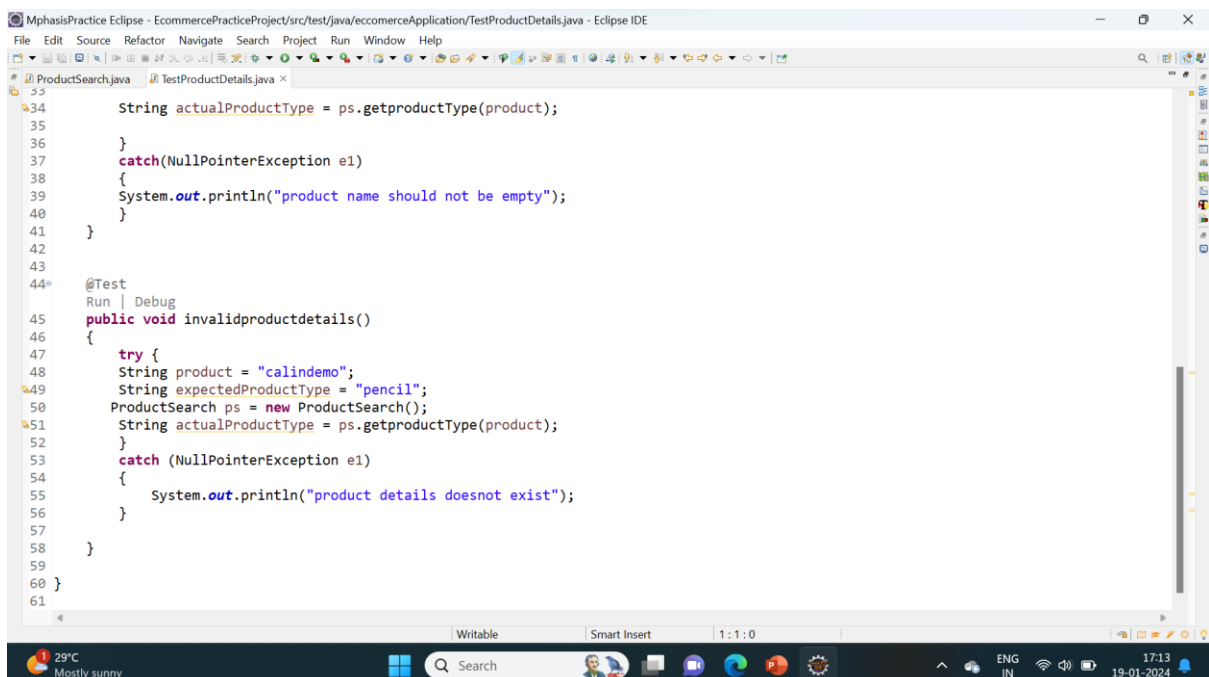
Step 1:

Create a Maven Project with name EcommercePracticeProject and Add dependencies

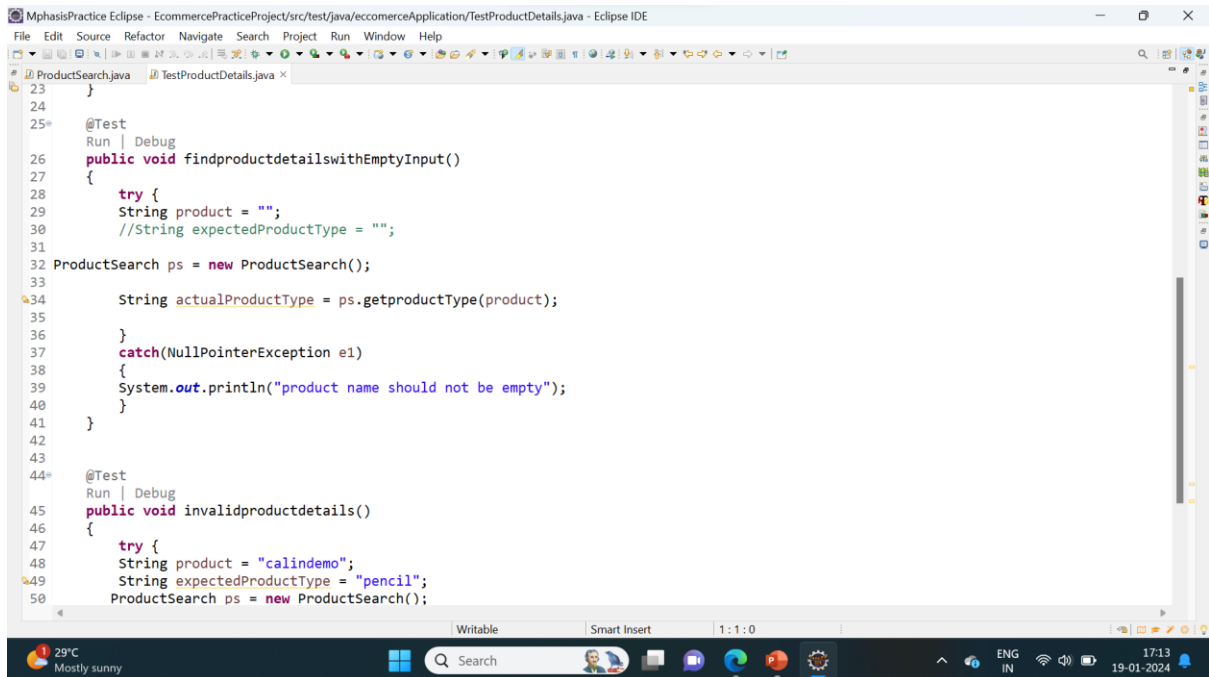


Step 2:

Create Class TestProductDetails and write the code by using TDD methodology

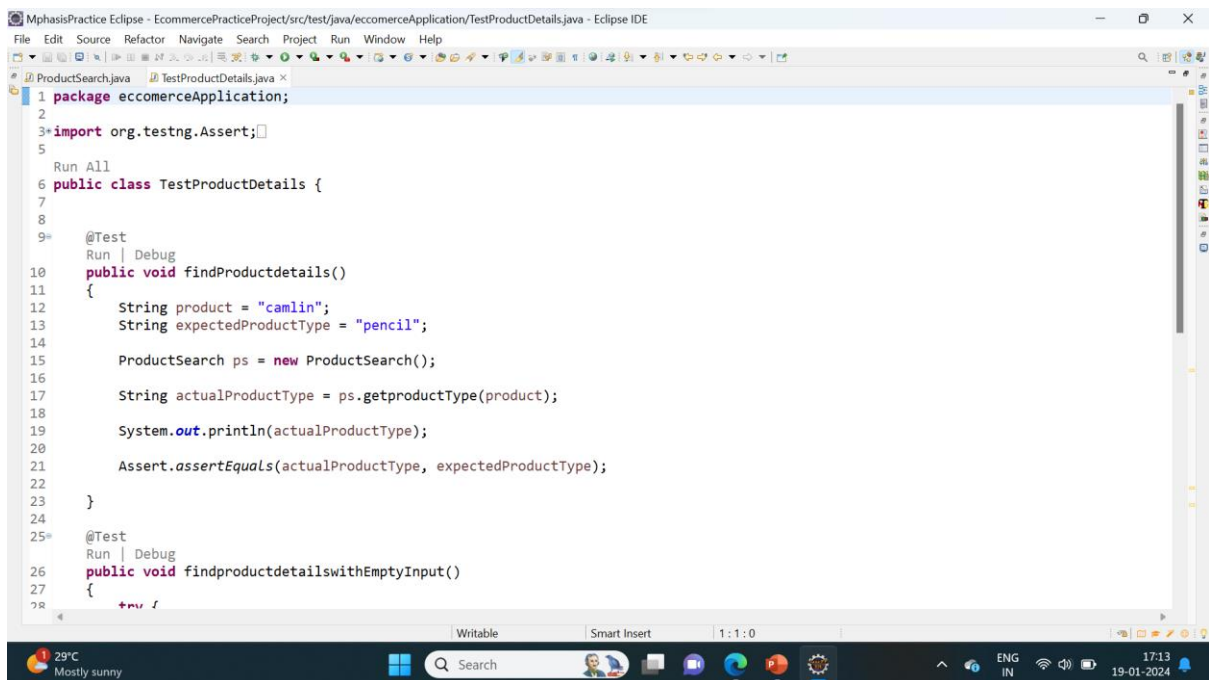


Phase-2 Practice Project - 2



This screenshot shows the Eclipse IDE with the file `TestProductDetails.java` open. The code contains two JUnit tests for the `ProductSearch` class. The first test, `findproductdetailswithEmptyInput()`, checks that an empty product name results in a `NullPointerException`. The second test, `invalidproductdetails()`, checks that a product name not in the database returns an empty string.

```
23 }
24
25 @Test
26 Run | Debug
27 public void findproductdetailswithEmptyInput()
28 {
29     try {
30         String product = "";
31         //String expectedProductType = "";
32
33         ProductSearch ps = new ProductSearch();
34
35         String actualProductType = ps.getProductType(product);
36     }
37     catch(NullPointerException e1)
38     {
39         System.out.println("product name should not be empty");
40     }
41 }
42
43
44 @Test
45 Run | Debug
46 public void invalidproductdetails()
47 {
48     try {
49         String product = "calindemo";
50         String expectedProductType = "pencil";
51         ProductSearch ps = new ProductSearch();
```



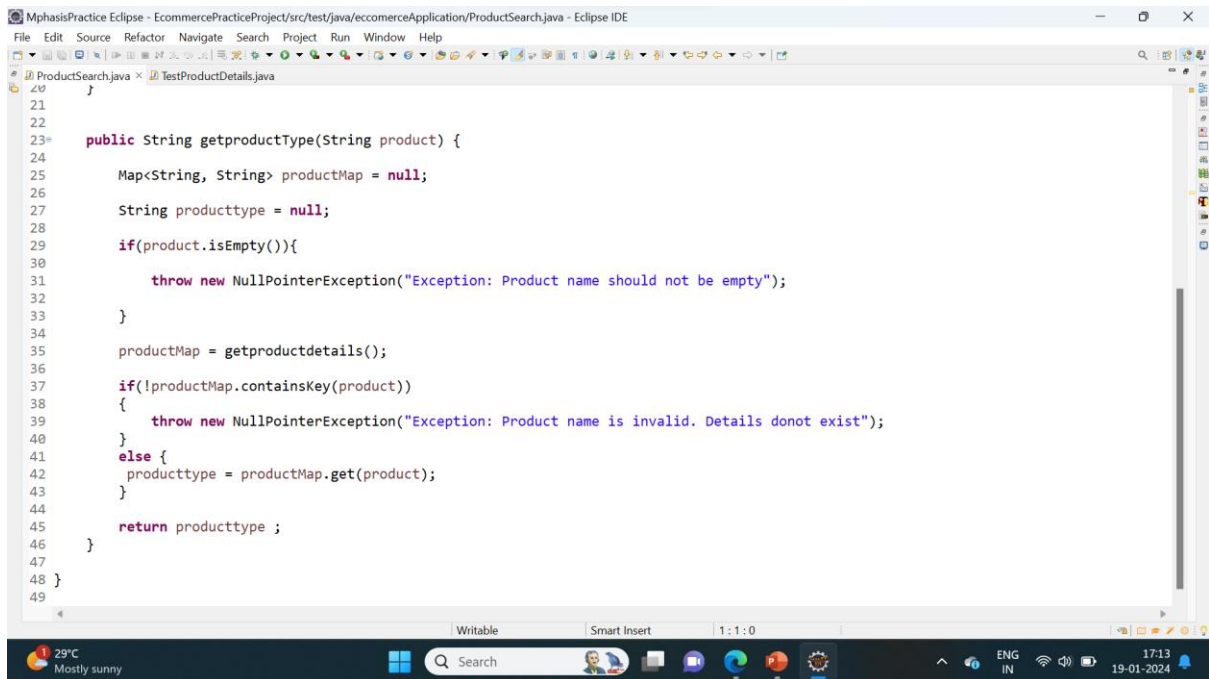
This screenshot shows the Eclipse IDE with the file `ProductSearch.java` open. The code defines the `ProductSearch` class and its `getProductType` method. The method uses a `HashMap` to store product names and their corresponding types. It returns the type for a given product name or an empty string if the product is not found.

```
1 package ecommerceApplication;
2
3 import org.testng.Assert;
4
5
6 Run All
7 public class TestProductDetails {
8
9     @Test
10    Run | Debug
11    public void findProductdetails()
12    {
13        String product = "camlin";
14        String expectedProductType = "pencil";
15
16        ProductSearch ps = new ProductSearch();
17
18        String actualProductType = ps.getProductType(product);
19
20        System.out.println(actualProductType);
21
22        Assert.assertEquals(actualProductType, expectedProductType);
23    }
24
25    @Test
26    Run | Debug
27    public void findproductdetailswithEmptyInput()
28    {
```

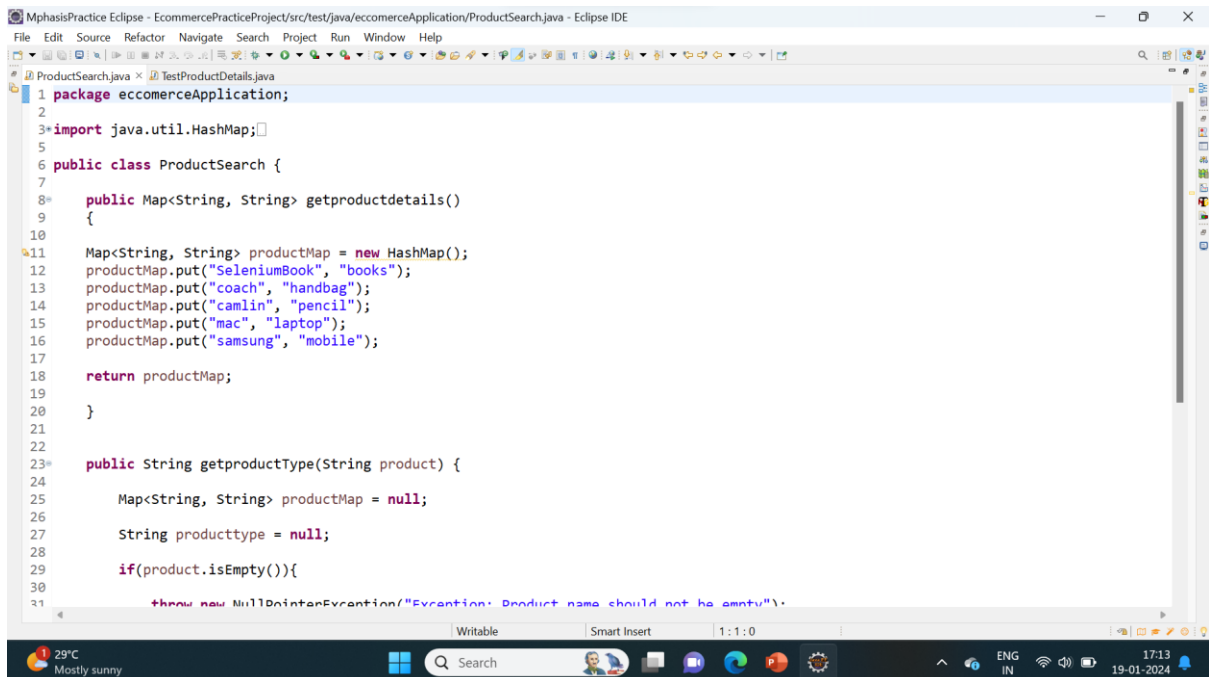
Phase-2 Practice Project - 2

Step 3:

Create Class ProductSearch based on the errors occurred in TestProductDetails class



```
49 }
21
22
23 public String getproductType(String product) {
24     Map<String, String> productMap = null;
25
26     String producttype = null;
27
28     if(product.isEmpty()){
29
30         throw new NullPointerException("Exception: Product name should not be empty");
31     }
32
33
34     productMap = getproductdetails();
35
36     if(!productMap.containsKey(product))
37     {
38         throw new NullPointerException("Exception: Product name is invalid. Details donot exist");
39     }
40     else {
41         producttype = productMap.get(product);
42     }
43
44     return producttype ;
45 }
46
47
48 }
49 }
```

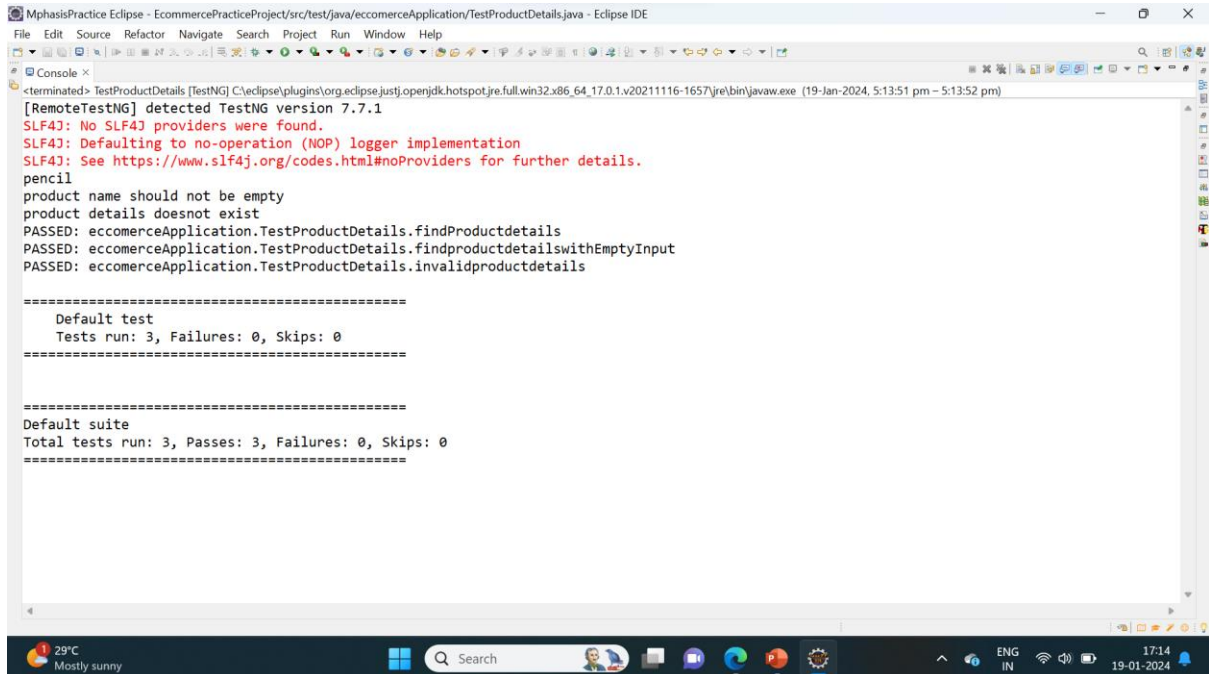
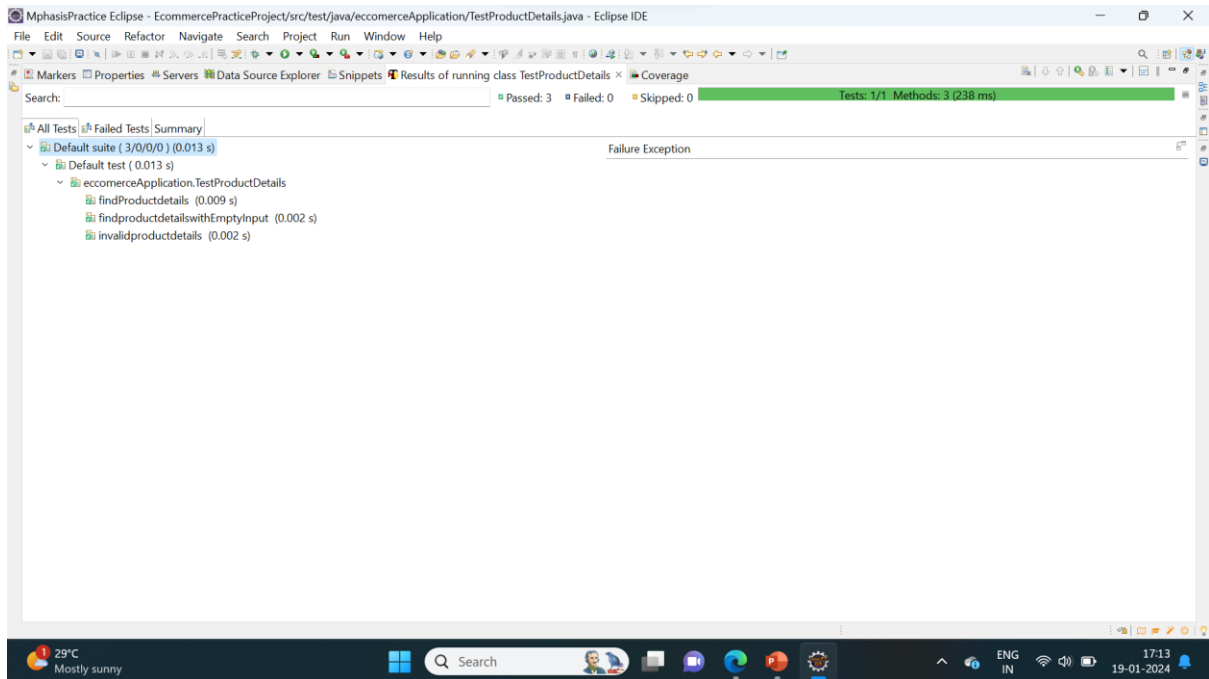


```
1 package ecommerceApplication;
2
3 import java.util.HashMap;
4
5
6 public class ProductSearch {
7
8     public Map<String, String> getproductdetails()
9     {
10
11         Map<String, String> productMap = new HashMap();
12         productMap.put("SeleniumBook", "books");
13         productMap.put("coach", "handbag");
14         productMap.put("camlin", "pencil");
15         productMap.put("mac", "laptop");
16         productMap.put("samsung", "mobile");
17
18         return productMap;
19     }
20
21
22
23 public String getproductType(String product) {
24     Map<String, String> productMap = null;
25
26     String producttype = null;
27
28     if(product.isEmpty()){
29
30         throw new NullPointerException("Exception: Product name should not be empty");
31     }
```

Phase-2 Practice Project - 2

Step 4:

Run the TestProductDetails Class and all Test Cases will be passed



GitHub Link: [GitHub - chandumj/simplilearnprojects](https://github.com/chandumj/simplilearnprojects)