

# Phase-2 Practice Project-TDD

**Repository:** [https://github.com/Joshnitha/Phase2\\_Practice-Projects/](https://github.com/Joshnitha/Phase2_Practice-Projects/)

## Description

Create a web application that displays the course list, practices, and training.

## Background of the problem statement:

As a part of developing an e-learning web application, the back-end admin requires a list of courses, practices, and training videos.

## You must use the following:

- Eclipse IDE
- Java Development Kit (Version 8)
- Selenium standalone server (Version 3.141.59)

## Source Code:

Class: TestCourseSearch

```
package com.app.TDD.demo;
```

```
import org.testng.Assert;  
import org.testng.annotations.Test;
```

```
public class TestCourseSearch {
```

```
    @Test  
    public void findcourse()  
    {
```

```
        String coursename = "Selenium";  
        int ExpectedPractices = 20;  
        CourseSearch cs = new CourseSearch();
```

```
        // number of people in the city
```

```
        int count = cs.getCourse(coursename);
```

```
        System.out.println(count);
```

```
        Assert.assertEquals(count, ExpectedPractices);
```

```
}
```

```
@Test
```

```
public void findcourseEmptyInput()
```

```
{
```

```
    try {
```

```
        String coursename = "";
```

```
        int ExpectedPractices = 0;
```

```
        CourseSearch cs = new CourseSearch();
```

```
        int count = cs.getCourse(coursename);
```

```
    }
```

```
    catch(NullPointerException e)
```

```
    {
```

```
        System.out.println("Course name cannot be empty");
```

```
    }
```

```
}
```

```
@Test
```

```
public void findcourseInvalidInput()
```

```
{
```

```
    try {
```

```
        String coursename = "Java";
```

```
        int ExpectedPractices = 35;
```

```
        CourseSearch cs = new CourseSearch();
```

```
        int count = cs.getCourse(coursename);
```

```
    }
```

```
    catch(NullPointerException e1)
```

```
    {
```

```
        System.out.println("Course name doesnot exist in the list");
```

```
    }
```

```
}
```

```
}
```

Class: CourseSearch

```
package com.app.TDD.demo;
```

```
import java.util.HashMap;
```

```
import java.util.Map;
```

```
public class CourseSearch {
```

```
    private Map<String, Integer> getcoursedata(){
```

```
        Map<String, Integer> courseMap = new HashMap();
```

```
        courseMap.put("Selenium",20);
```

```
        courseMap.put("Cucumber",25);
```

```
        courseMap.put("jmeter",30);
```

```
        courseMap.put("TestNG",15);
```

```
        return courseMap;
```

```
    }
```

```
    public int getCourse(String coursename) {
```

```
        Map<String, Integer> courseMap = null;
```

```
        int count = 0;
```

```
        if(coursename.isEmpty())
```

```
        {
```

```
            throw new NullPointerException("Course name cannot be empty");
```

```
        }
```

```
        courseMap = getcoursedata();
```

```
        if(!courseMap.containsKey(coursename))
```

```
        {
```

```
            throw new NullPointerException("course name doesnot exist");
```

```
        }
```

```
        else {
```

```
            count = courseMap.get(coursename);
```

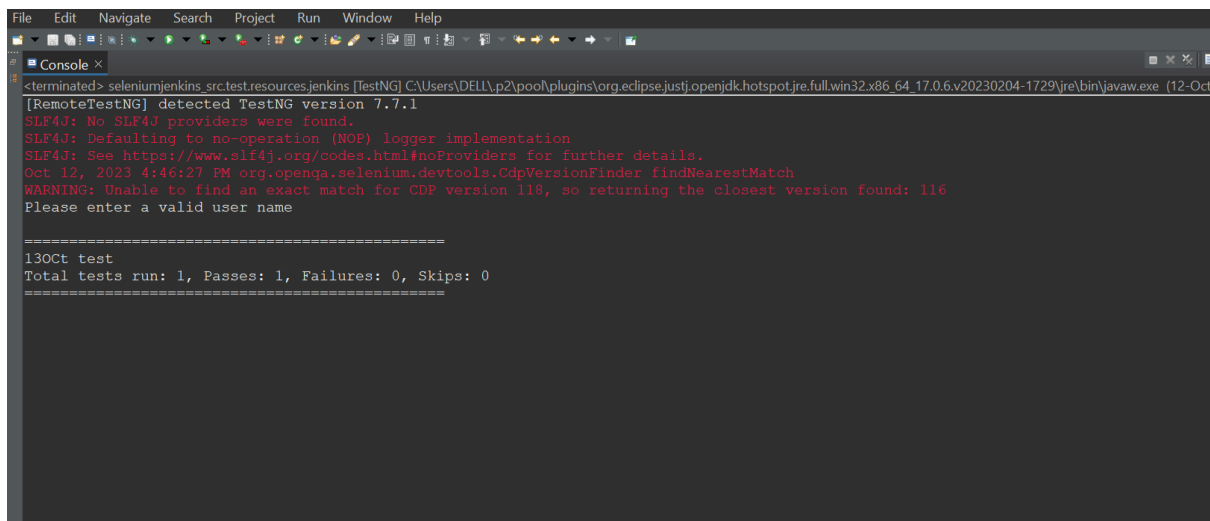
```
        }
```

```
        return count;
```

```
    }
```

```
}
```

## Output-ScreenShot



## Source Code:

```
package com.app.TestNGScripts;

import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
import org.testng.annotations.Test;

public class Lesson3_endproject {

    @Test
    public void GetTitle()
    {

        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.simplilearn.com/");
```

```

        String title = driver.getTitle();

        System.out.println(title);

        driver.close();
    }

    @Test
    public void login() throws InterruptedException
    {
        WebDriver driver = new ChromeDriver();

        driver.manage().window().maximize();

        driver.get("https://www.simplilearn.com/");

        driver.findElement(By.linkText("Log in")).click();

        driver.findElement(By.xpath("//input[@type=\"text\"]")).sendKeys("seleniumdemo@gmail.c
om");

        driver.findElement(By.xpath("//input[@type=\"password\"]")).sendKeys("Selenium@123");

        driver.findElement(By.xpath("//input[@type='submit']")).click();
    }

    @Test
    public void mycourse() throws InterruptedException
    {
        WebDriver driver = new ChromeDriver();

        driver.manage().window().maximize();

        driver.get("https://www.simplilearn.com/");

        //driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));

        WebElement e1 = driver.findElement(By.xpath("//span[@class='courses-
menu']/descendant::span"));

        Actions a = new Actions(driver);

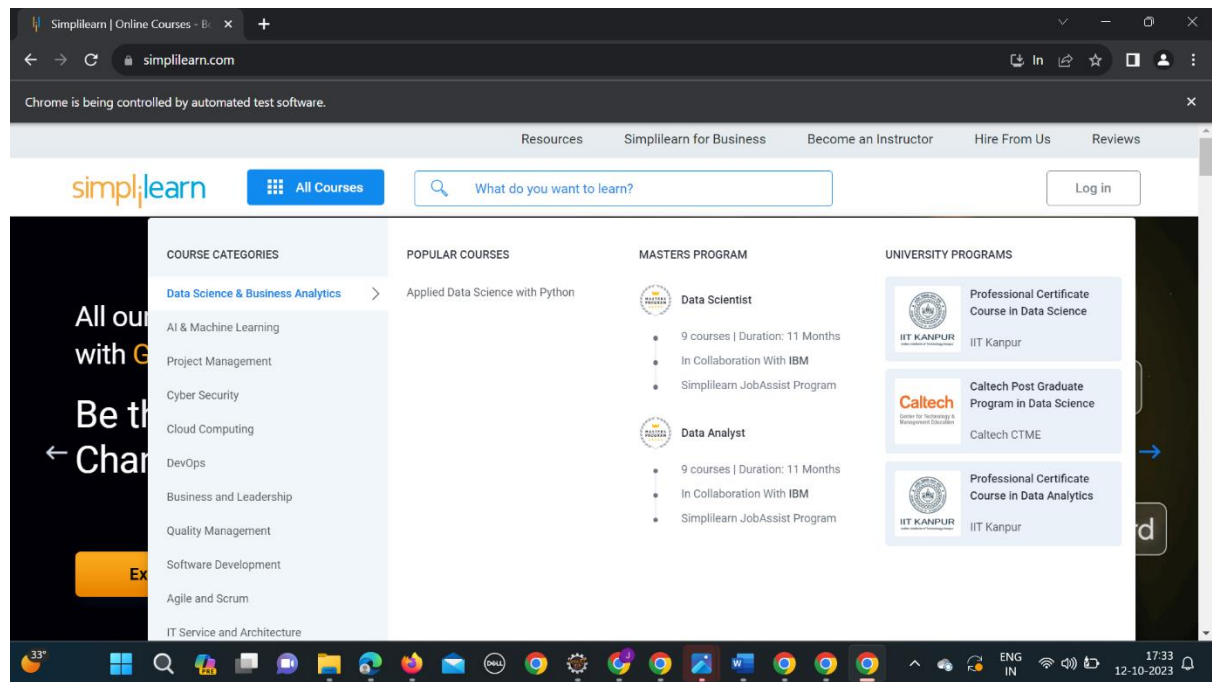
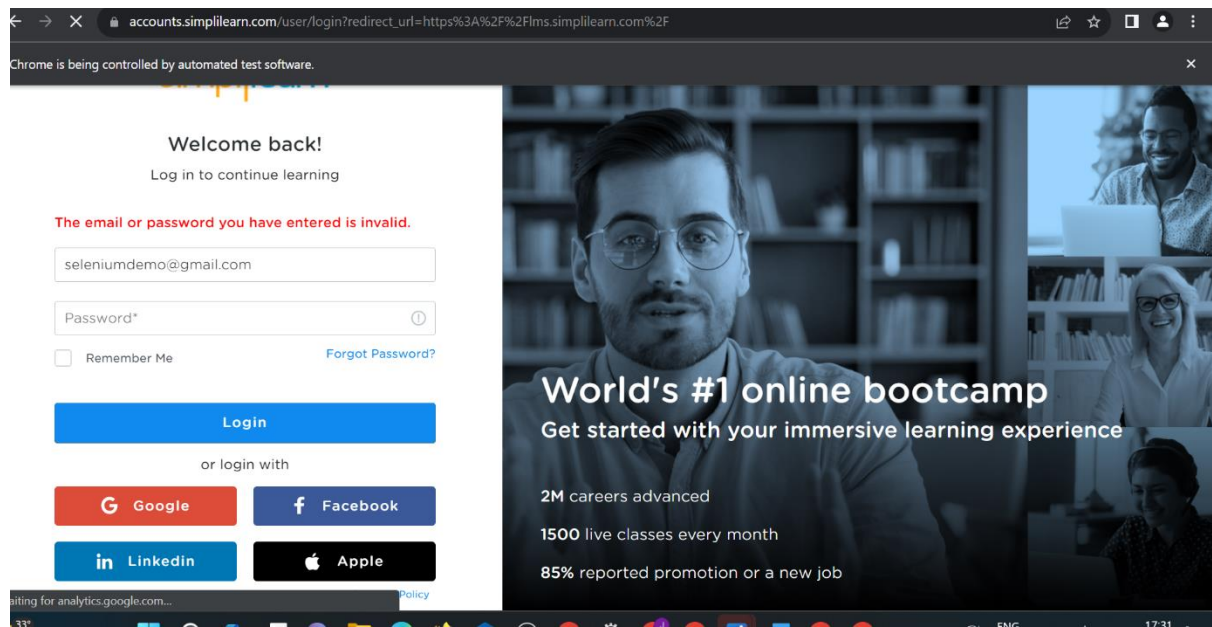
        a.moveToElement(e1).perform();

        Thread.sleep(5000);

        driver.findElement(By.xpath("//li[@class='menu-
item'][6]/descendant::a[1]")).click();
    }

```

## Output-ScreenShot



```
eclipse-workspace - ATE-Phase2-Selenium-TestNG/src/test/java/com/app/TestNGScripts/Lesson3_endproject.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console x
<terminated> Lesson3_endproject [TestNG] C:\Users\DELL\p2\poo\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (12-Oct-2023 5:30:58 pm - 5:31:59 pm) [pid: 24264]
[RemoteTestNG] detected TestNG version 7.8.0
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Oct 12, 2023 5:31:04 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 118, so returning the closest version found: 115
Simplilearn | Online Courses - Bootcamp & Certification Platform
Oct 12, 2023 5:31:10 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 118, so returning the closest version found: 115
Oct 12, 2023 5:31:44 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 118, so returning the closest version found: 115
PASSED: com.app.TestNGScripts.Lesson3_endproject.login
PASSED: com.app.TestNGScripts.Lesson3_endproject.GetTitle
PASSED: com.app.TestNGScripts.Lesson3_endproject.mycourse

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```