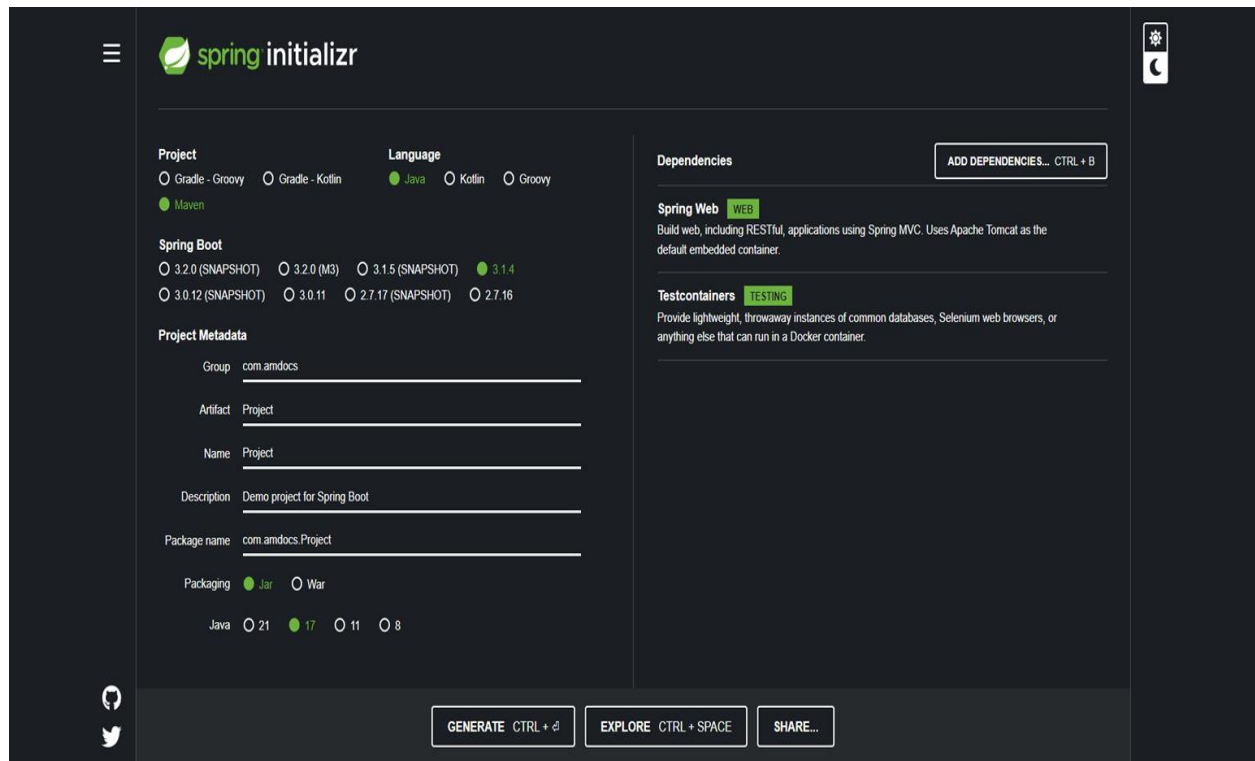


Name: Shreya Ghogare

Employee ID: 201314

Project Topic: Automation of
W3Schools Website using Selenium.

Create a spring project and generate a zip file and extract into the folder.

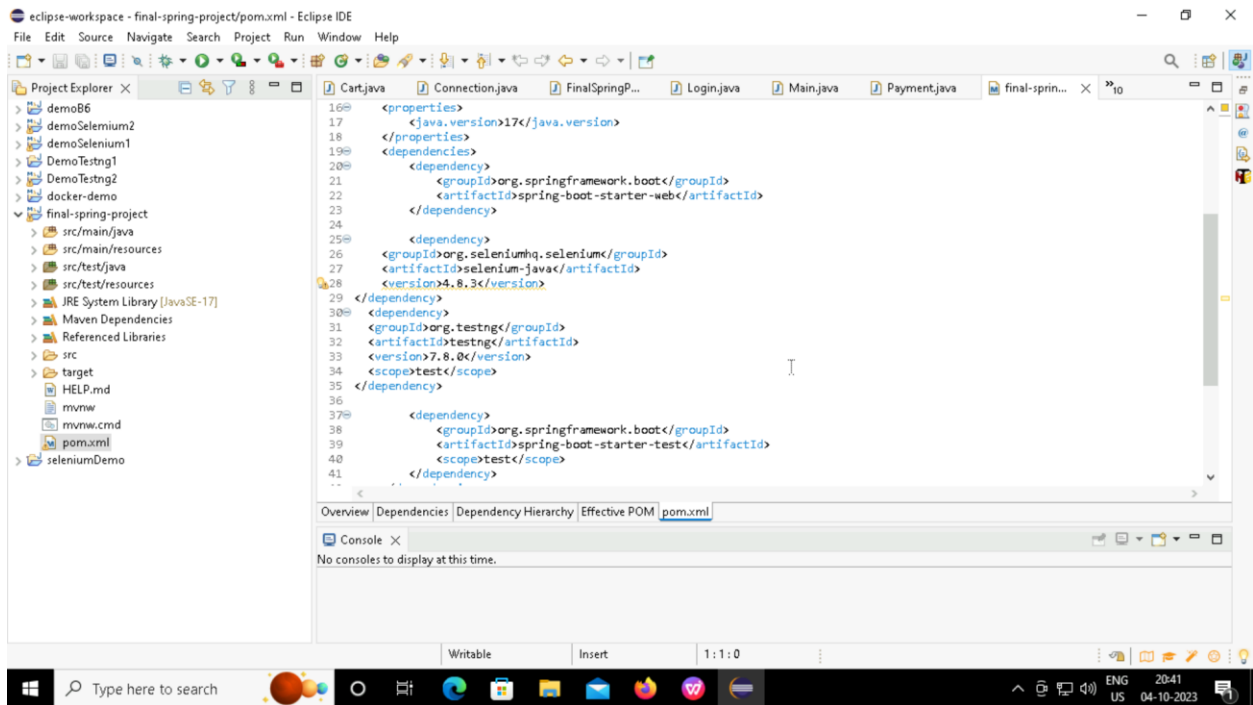


The image shows the Spring Initializr web interface, a tool for generating Spring projects. The interface is dark-themed and organized into several sections:

- Project:** Includes radio buttons for **Gradle - Groovy**, **Gradle - Kotlin**, **Maven** (selected), and **Kotlin**.
- Language:** Includes radio buttons for **Java** (selected), **Kotlin**, and **Groovy**.
- Spring Boot:** Includes radio buttons for versions: **3.2.0 (SNAPSHOT)**, **3.2.0 (M3)**, **3.1.5 (SNAPSHOT)**, **3.1.4** (selected), **3.0.12 (SNAPSHOT)**, **3.0.11**, **2.7.17 (SNAPSHOT)**, and **2.7.16**.
- Project Metadata:** Includes input fields for **Group** (com.amidocs), **Artifact** (Project), **Name** (Project), **Description** (Demo project for Spring Boot), and **Package name** (com.amidocs.Project).
- Packaging:** Includes radio buttons for **Jar** (selected) and **War**.
- Java:** Includes radio buttons for versions: **21**, **17** (selected), **11**, and **8**.
- Dependencies:** Includes a button **ADD DEPENDENCIES... CTRL + B**.
- Spring Web:** Includes a **WEB** tag and a description: "Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container."
- Testcontainers:** Includes a **TESTING** tag and a description: "Provide lightweight, throwaway instances of common databases, Selenium web browsers, or anything else that can run in a Docker container."

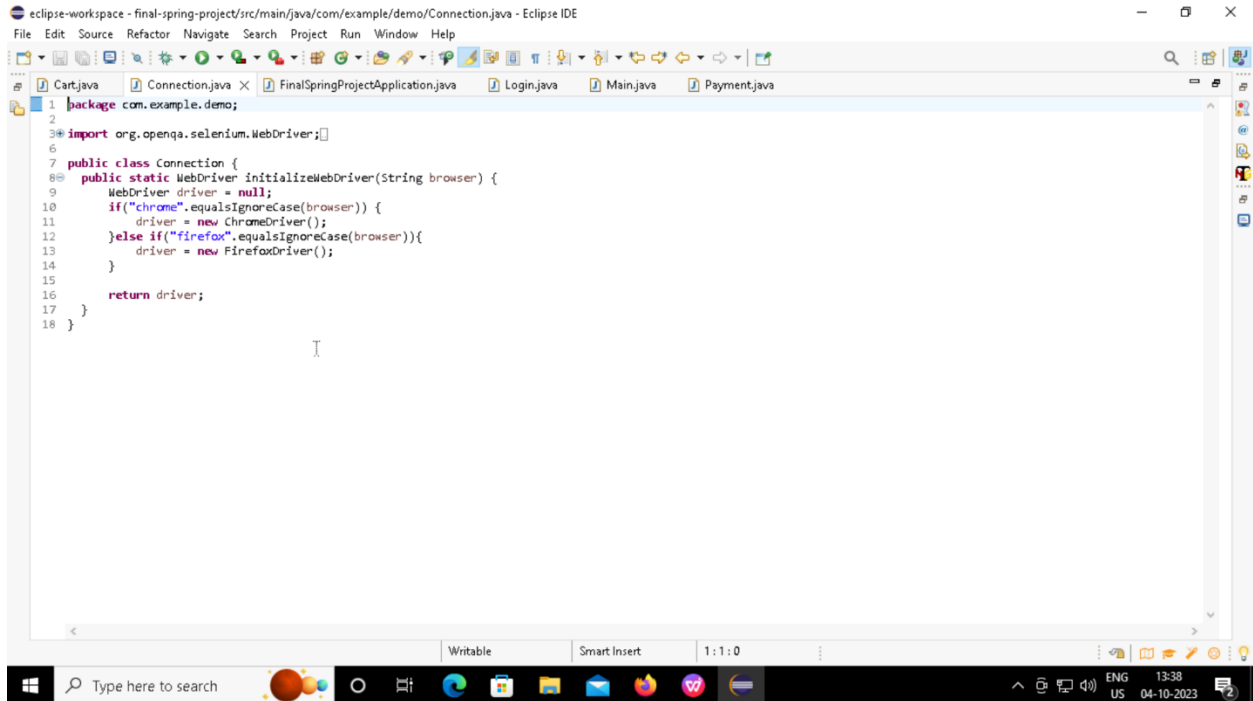
At the bottom, there are three buttons: **GENERATE CTRL + G**, **EXPLORE CTRL + SPACE**, and **SHARE...**. The Spring Initializr logo is in the top left, and a settings icon is in the top right.

Add dependency in pom.xml :



CODE

Connection.java



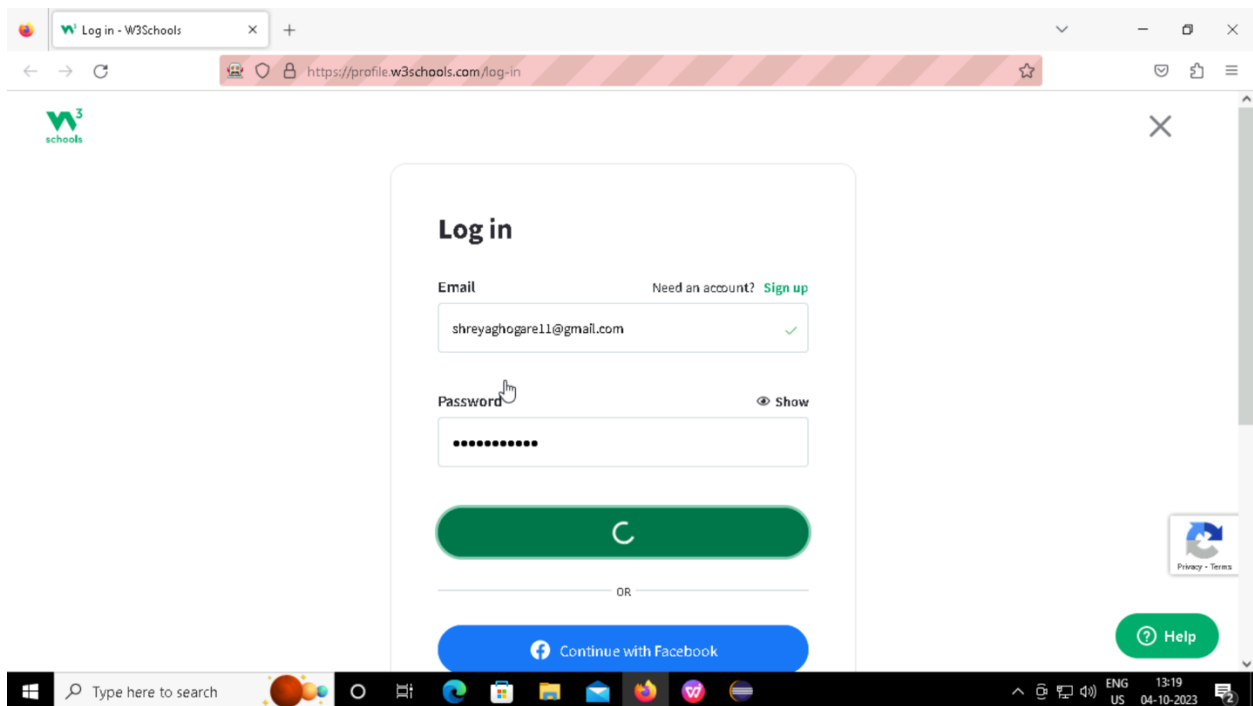
The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - final-spring-project/src/main/java/com/example/demo/Connection.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development tools. The Package Explorer on the left shows a package structure with files: Cart.java, Connection.java (selected), FinalSpringProjectApplication.java, Login.java, Main.java, and Payment.java. The Editor window displays the following Java code:

```
1 package com.example.demo;
2
3 import org.openqa.selenium.WebDriver;
4
5
6
7 public class Connection {
8     public static WebDriver initializeWebDriver(String browser) {
9         WebDriver driver = null;
10         if("chrome".equalsIgnoreCase(browser)) {
11             driver = new ChromeDriver();
12         } else if("firefox".equalsIgnoreCase(browser)){
13             driver = new FirefoxDriver();
14         }
15         return driver;
16     }
17 }
18 }
```

The status bar at the bottom shows "Writable", "Smart Insert", and "1:1:0". The Windows taskbar at the very bottom includes the Start button, a search bar, and several application icons. The system tray on the right shows the date and time as "13:38 04-10-2023" and the language as "ENG US".

Login java

```
eclipse-workspace - final-spring-project/src/main/java/com/example/demo/Login.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Cart.java Connection.java Login.java X Main.java Payment.java
1 package com.example.demo;
2
3 import org.openqa.selenium.By;
4
5
6
7 public class Login {
8
9     98 public static void performLogin(WebDriver driver, String username, String password) throws InterruptedException {
10         driver.get("https://profile.w3schools.com/log-in");
11         driver.manage().window().maximize();
12         WebElement usernameField = driver.findElement(By.id("modalusername"));
13         WebElement passwordField = driver.findElement(By.id("current-password"));
14
15         usernameField.sendKeys(username);
16         passwordField.sendKeys(password);
17
18         WebElement loginButton = driver.findElement(By.xpath("//*[id='root']/div/div/div[4]/div[1]/div/div[4]/div[1]/button"));
19         loginButton.click();
20
21
22
23     }
24
25 }
```

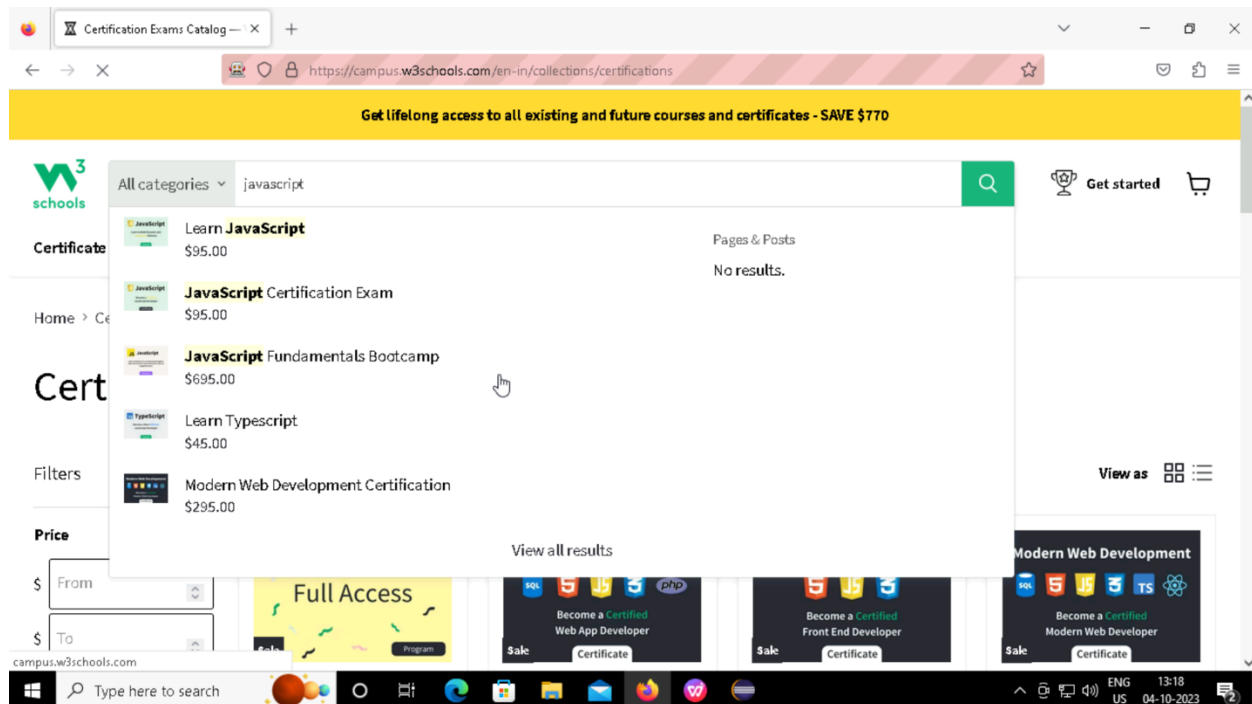


Cart.java

```
eclipse-workspace - final-spring-project/src/main/java/com/example/demo/Cart.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help




Cart.java Connection.java FinalSpringProjectApplication.java Login.java Main.java Payment.java

1 package com.example.demo;
2 import org.openqa.selenium.By;
3
4
5
6 public class Cart {
7     public static void searchAndCart(WebDriver driver, String search ) throws InterruptedException {
8         driver.get("https://campus.w3schools.com/en-in/collections/certifications");
9
10        WebElement searchText = driver.findElement(By.xpath("//*[@id='shopify-section-static-header']/div[2]/div[1]/div[2]/form/div[1]/input"));
11
12        searchText.sendKeys(search);
13
14
15
16        WebElement searchButton = driver.findElement(By.xpath("//*[@id='shopify-section-static-header']/div[2]/div[1]/div[2]/form/div[1]/button[2]"));
17        searchButton.click();
18        System.out.println("clicked");
19        System.out.println("cart start");
20
21        driver.get("https://campus.w3schools.com/en-in/products/javascript-course?_pos=1&_sid=5da586ecc&_ss=r");
22        System.out.println("js clicked");
23        WebElement addToCart = driver.findElement(By.xpath("//*[@id='product_form_4695230939193']/div[2]/button"));
24        addToCart.click();
25        Thread.sleep(5000);
26        WebElement checkout = driver.findElement(By.xpath("//*[@id='shopify-section-template--15923756924985__main']/form/div[2]/section/div/div/div[3]/button"));
27        checkout.click();
28        Thread.sleep(8000);
29        System.out.println("checkout clicked");
30
31    }
32
33 }
34
```




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
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Type here to search


ENG US 13:19 04-10-2023

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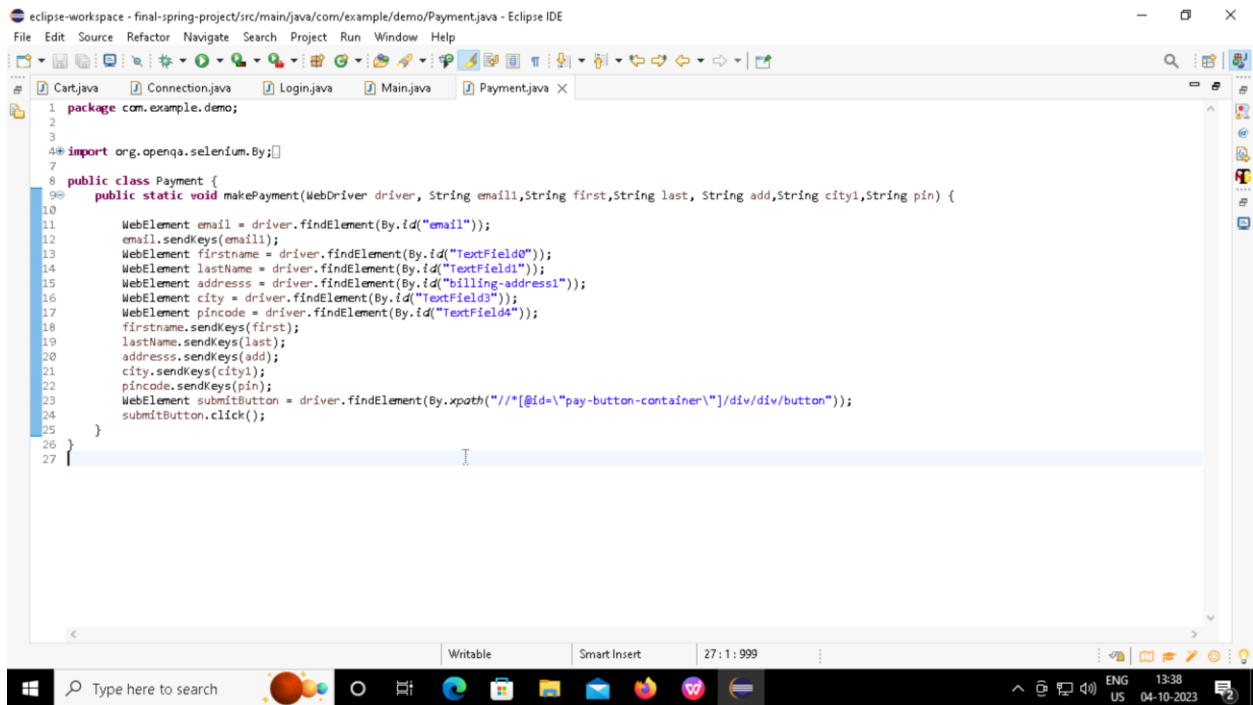
 Check out

The TLS handshake finished for www.facebook.com...

Type here to search

ENG US 13:19 04-10-2023

Payment.java

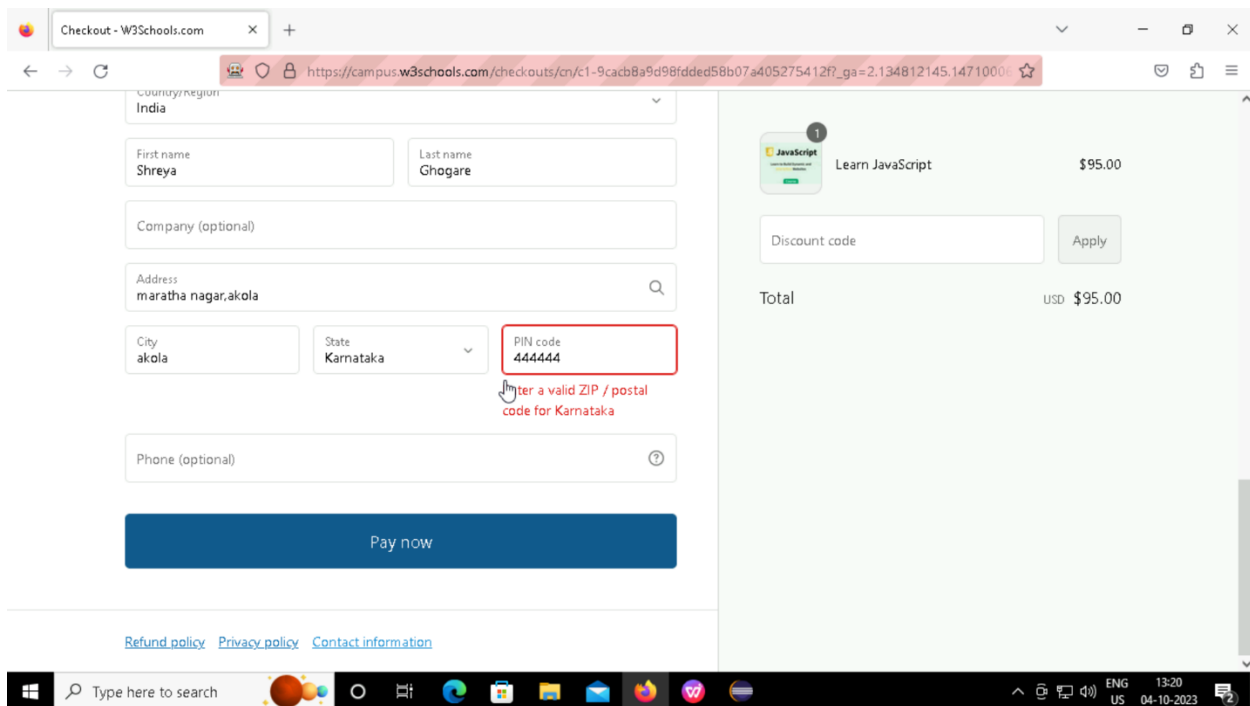
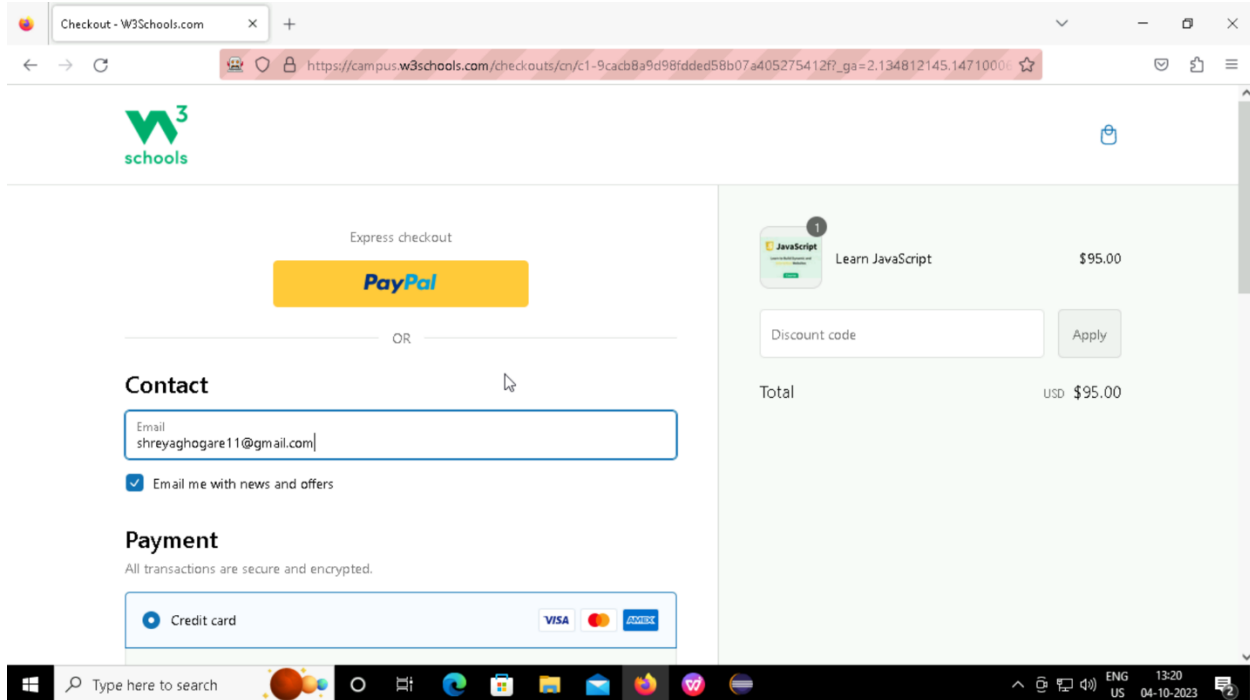


```
1 package com.example.demo;
2
3
4 import org.openqa.selenium.By;
5
6
7
8 public class Payment {
9     public static void makePayment(WebDriver driver, String email, String first, String last, String add, String city, String pin) {
10
11         WebElement email = driver.findElement(By.id("email"));
12         email.sendKeys(email);
13         WebElement firstName = driver.findElement(By.id("TextField0"));
14         WebElement lastName = driver.findElement(By.id("TextField1"));
15         WebElement address = driver.findElement(By.id("billing-address1"));
16         WebElement city = driver.findElement(By.id("TextField3"));
17         WebElement pincode = driver.findElement(By.id("TextField4"));
18         firstName.sendKeys(first);
19         lastName.sendKeys(last);
20         address.sendKeys(add);
21         city.sendKeys(city);
22         pincode.sendKeys(pin);
23         WebElement submitButton = driver.findElement(By.xpath("//*[@id='pay-button-container']/div/div/button"));
24         submitButton.click();
25     }
26 }
27 }
```

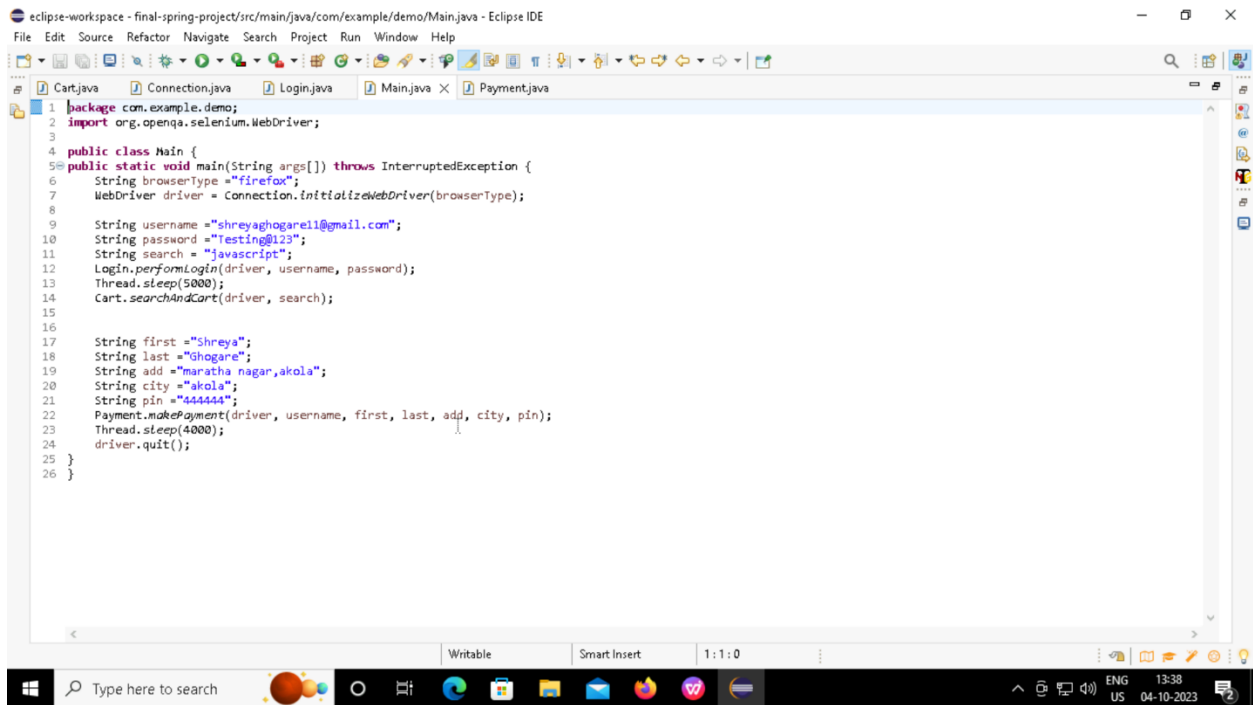
Writable Smart Insert 27:1:999

Type here to search

ENG 13:38
US 04-10-2023



Main.java

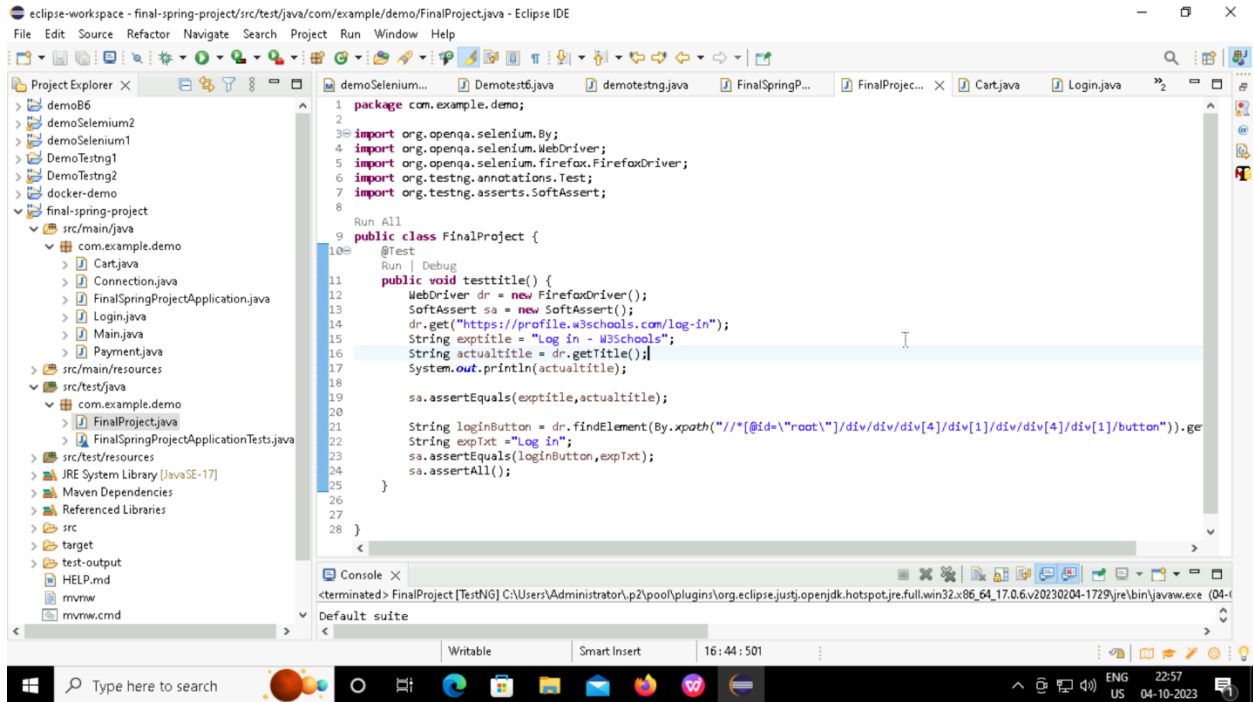


The screenshot shows the Eclipse IDE interface. The title bar reads "eclipse-workspace - final-spring-project/src/main/java/com/example/demo/Main.java - Eclipse IDE". The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development tools. The Package Explorer on the left shows a project structure with packages "com.example.demo" and "org.openqa.selenium", and classes "Cart.java", "Connection.java", "Login.java", "Main.java", and "Payment.java". The Editor window displays the code for Main.java, which is a Selenium test script. The code includes imports for Selenium WebDriver, a main method that initializes a Firefox driver, performs a login, searches for a product, and makes a payment. The code is as follows:

```
1 package com.example.demo;
2 import org.openqa.selenium.WebDriver;
3
4 public class Main {
5     public static void main(String args[]) throws InterruptedException {
6         String browserType = "firefox";
7         WebDriver driver = Connection.initializeWebDriver(browserType);
8
9         String username = "shreyaghogare1@gmail.com";
10        String password = "Testing@123";
11        String search = "javascript";
12        Login.performLogin(driver, username, password);
13        Thread.sleep(5000);
14        Cart.searchAndCart(driver, search);
15
16
17        String first = "Shreya";
18        String last = "Ghogare";
19        String add = "maratha nagar,akola";
20        String city = "akola";
21        String pin = "444444";
22        Payment.makePayment(driver, username, first, last, add, city, pin);
23        Thread.sleep(4000);
24        driver.quit();
25    }
26 }
```

The status bar at the bottom shows "Writable", "Smart Insert", "1:1:0", and system information including language (ENG), region (US), time (13:38), and date (04-10-2023).

TESTNg



eclipse-workspace - final-spring-project/src/test/java/com/example/demo/FinalProject.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- demoB6
- demoSelenium2
- demoSelenium1
- DemoTesting1
- DemoTesting2
- docker-demo
- final-spring-project
 - src/main/java
 - com.example.demo
 - Cart.java
 - Connection.java
 - FinalSpringProjectApplication.java
 - Login.java
 - Main.java
 - Payment.java
 - src/main/resources
 - src/test/java
 - com.example.demo
 - FinalProject.java
 - FinalSpringProjectApplicationTests.java
 - src/test/resources
 - JRE System Library [JavaSE-17]
 - Maven Dependencies
 - Referenced Libraries
 - src
 - target
 - test-output
 - HELP.md
 - mvnw
 - mvnw.cmd

demoSelenium... | Demotest6.java | demotes

```
12 WebDriver dr = new FirefoxDriver();
13 SoftAssert sa = new SoftAssert();
14 dr.get("https://profile.w3schools.c
15 String expTitle = "Log in - W3Schoo
16 String actualTitle = dr.getTitle();
17 System.out.println(actualTitle);
18
19 sa.assertEquals(expTitle, actualTitl
20
21 String loginButton = dr.findElement
22 String expTxt = "Log in";
23 sa.assertEquals(loginButton, expTxt)
24 sa.assertAll();
25 }
26
27
```

Search: Passed: 1 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 1 (7991 ms)

All Tests Failed Tests Summary

Default suite (1/0/0/0) (7.653 s)

Failure Exception

com.example.demo.FinalProject

testTitle (7.653 s)

Console

<terminated> FinalProject [TestNG] C:\Users\Administrator\p2\

Default suite

Total tests run: 1, Passes: 1, Failures: 0, Skip

22:56:11.966 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.SuiteHTMLReporter@3b95d13c: 63 ms

console.warn: services.settings: Ignoring preference override of remote settings server

console.warn: services.settings: Allow by setting MOZ_REMOTE_SETTINGS_DEVTOOLS=1 in the environment

console.error: (new TypeError("lazy.AsyncShutdown.profilesBeforeChange is undefined", "resource://services-settings/Database.sys.mjs")

22:56:12.093 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.jq.Main@30a7c98f: 127 ms

22:56:12.094 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.FailedReporter@36361ddb: 1 ms

22:56:12.102 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.XMLReporter@1816e24a: 7 ms

22:56:12.111 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.EmailReporter@2@3a5c2626: 8 ms

22:56:12.116 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.reporters.JUnitReporter@4d74bac4: 5 ms

22:56:12.117 [main] INFO org.testng.internal.Utils -- [TestNG] Time taken by org.testng.internal.ExitCodeListener@5ff90645: 0 ms

Type here to search

ENG 22:57 04-10-2023