



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Assignment Cover Page

Assignment Title:	Website testing with Selenium		
Assignment No :	01	Date of Submission:	17 July 2022
Course Title:	SOFTWARE QUALITY AND TESTING		
Course Code:	CSC4271	Section:	E
Semester:	Summer	2021-22	Course Teacher: ABHIJIT BHOWMIK

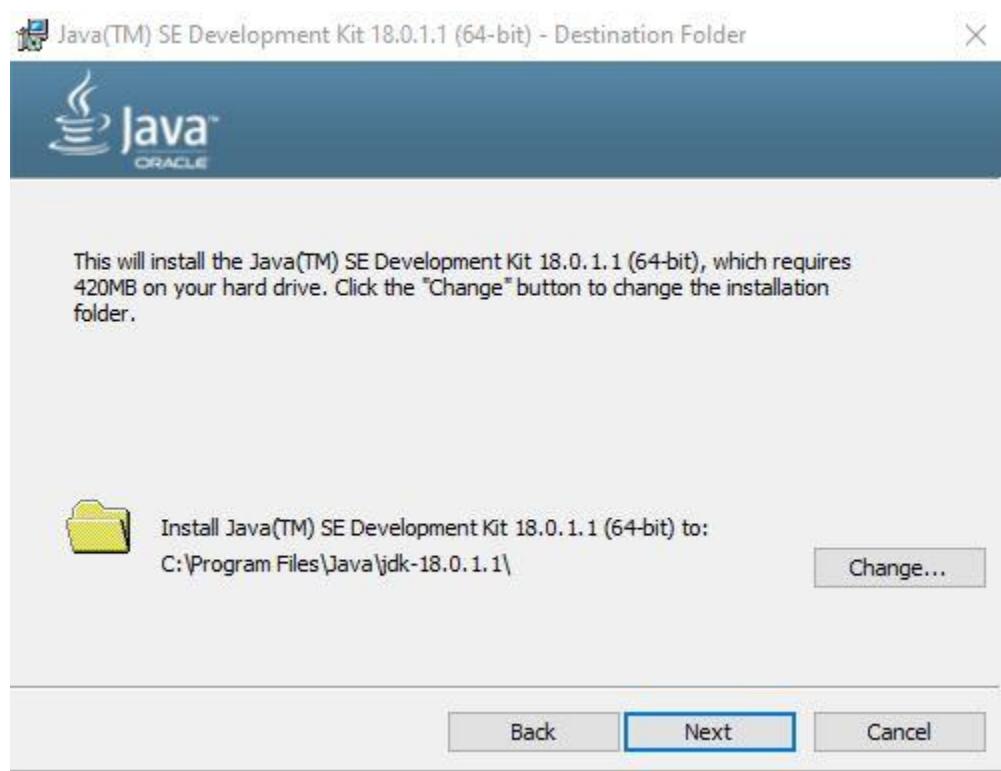
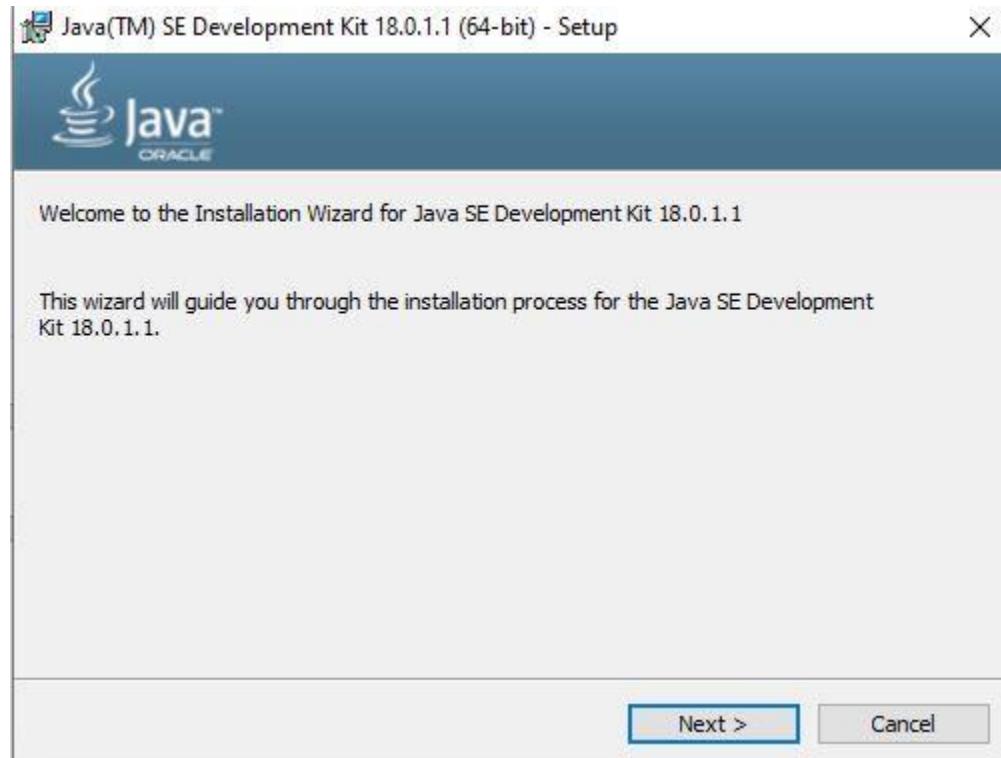
GROUP INFORMATION:

Serial no	Name	ID	Program	Signature
1	MEHEDI HASAN EMON		BSc [CSE]	Emon
2	TANJIM MAHMUD RAKIN		BSc [CSE]	Rakin
3	KAZI AHSANUL HAQUE SHOJIB		BSc [CSE]	Shojib
4	RIFAT AHMED		BSc [CSE]	Rifat

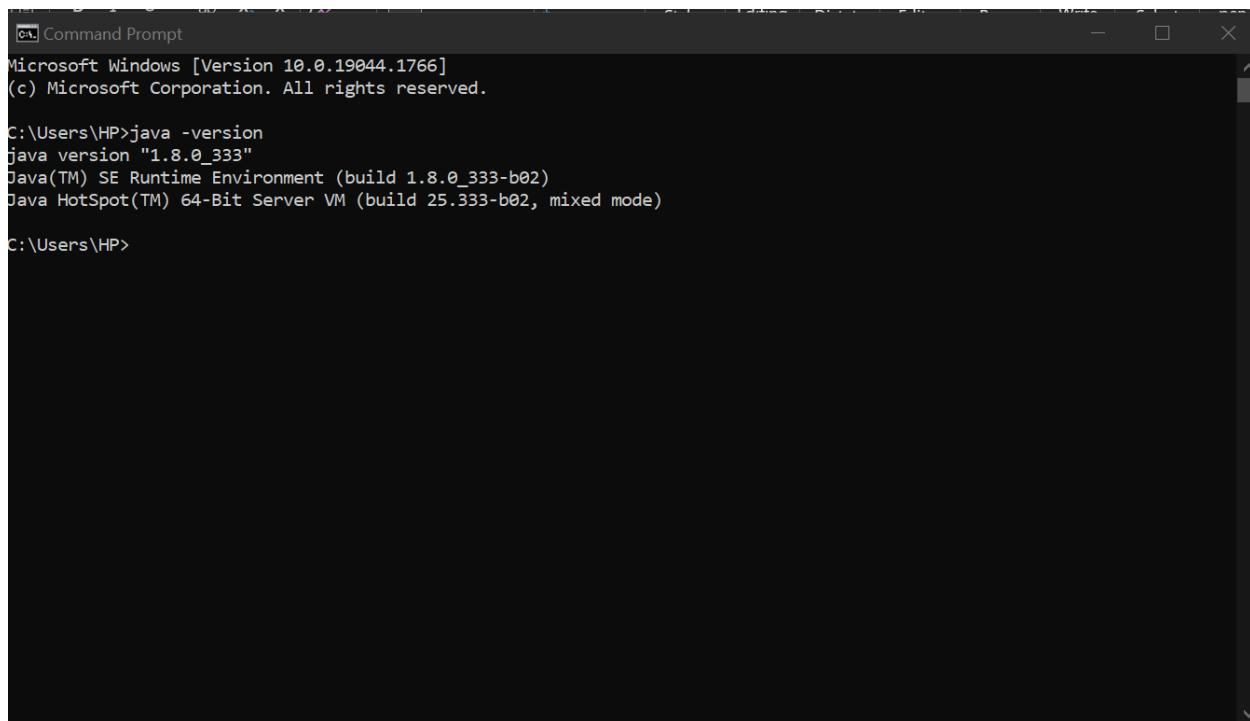
<i>Faculty use only</i>		
FACULTY COMMENTS	Marks Obtained	
	Total Marks	

STEP:1

JAVA JDK AND JRE DOWNLOADING, SETUP PROCESS AND VARIABLE SETUP:



JAVA VERSION CHECK:

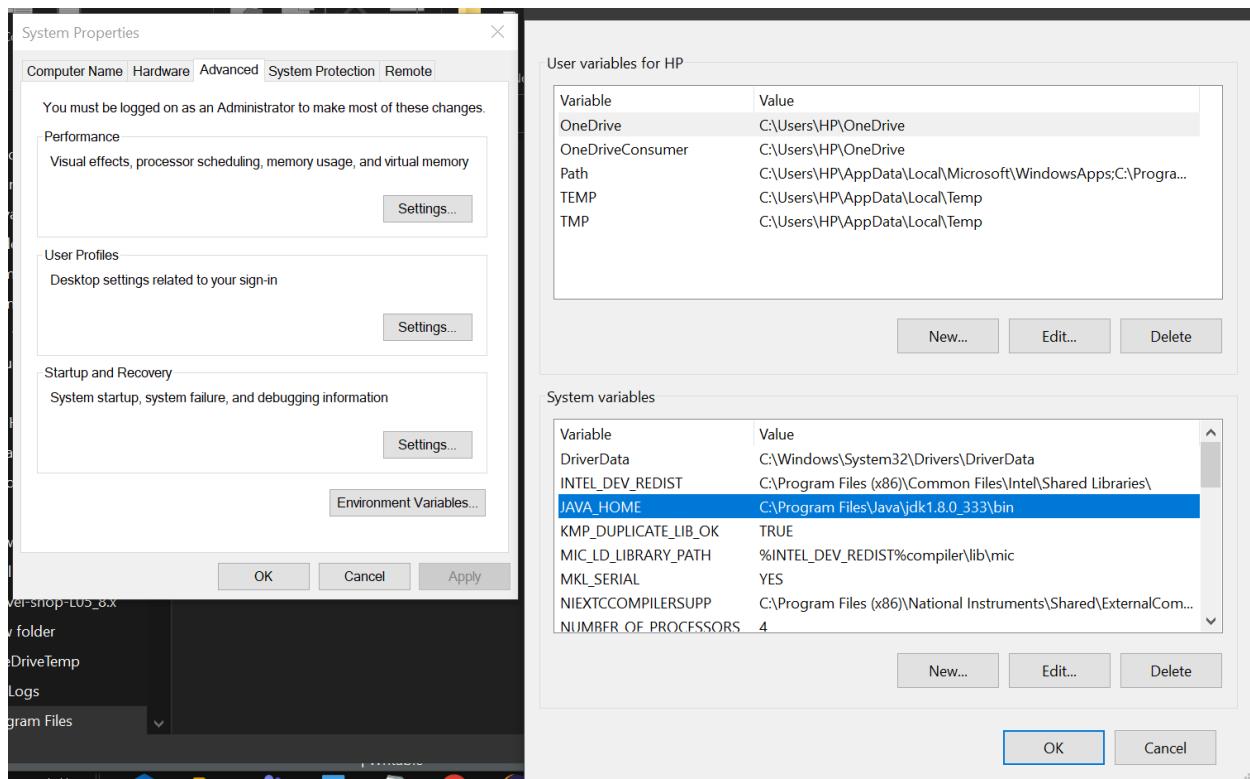


```
Command Prompt
Microsoft Windows [Version 10.0.19044.1766]
(c) Microsoft Corporation. All rights reserved.

C:\Users\HP>java -version
java version "1.8.0_333"
Java(TM) SE Runtime Environment (build 1.8.0_333-b02)
Java HotSpot(TM) 64-Bit Server VM (build 25.333-b02, mixed mode)

C:\Users\HP>
```

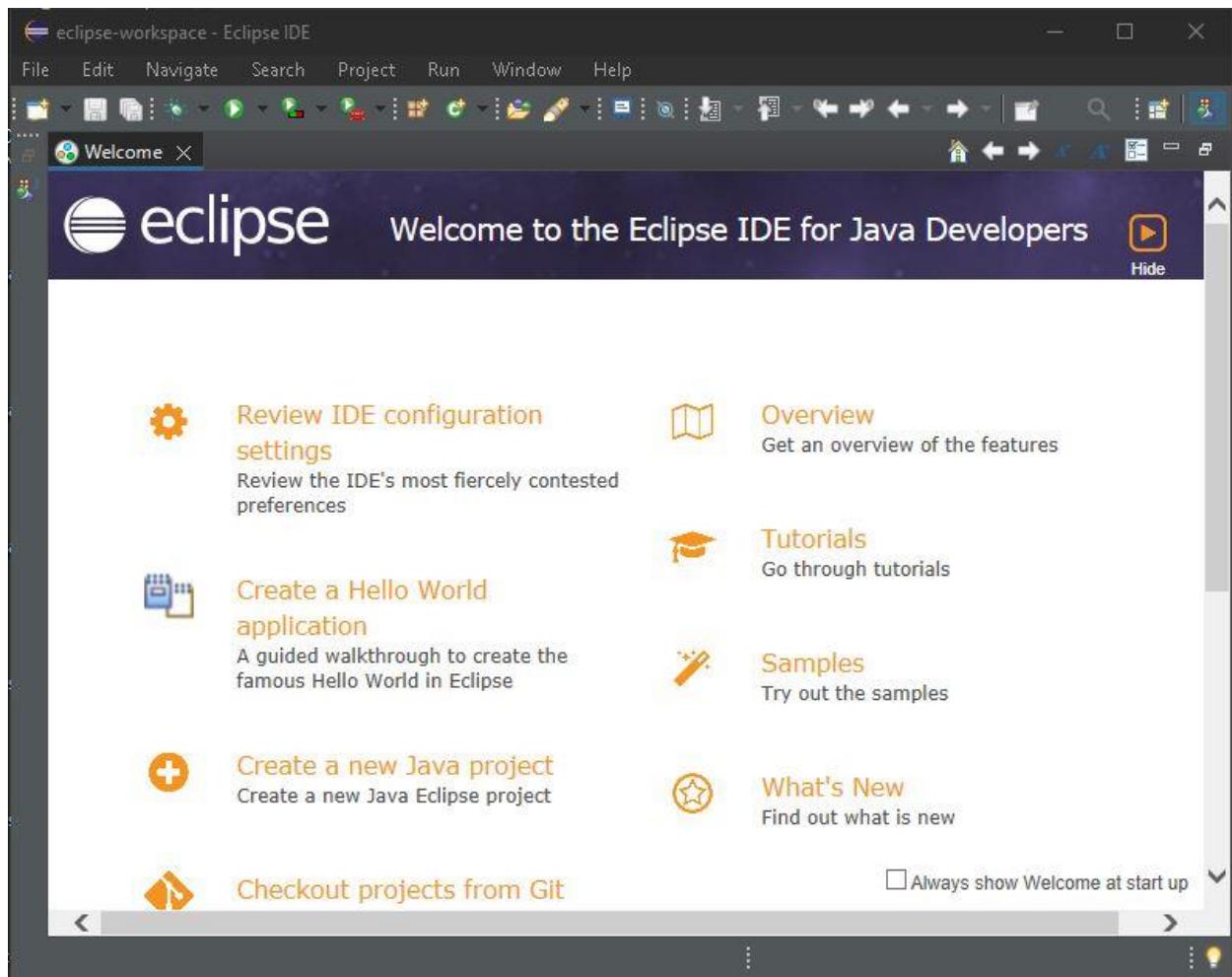
JAVA ENVIRONMENT SET UP



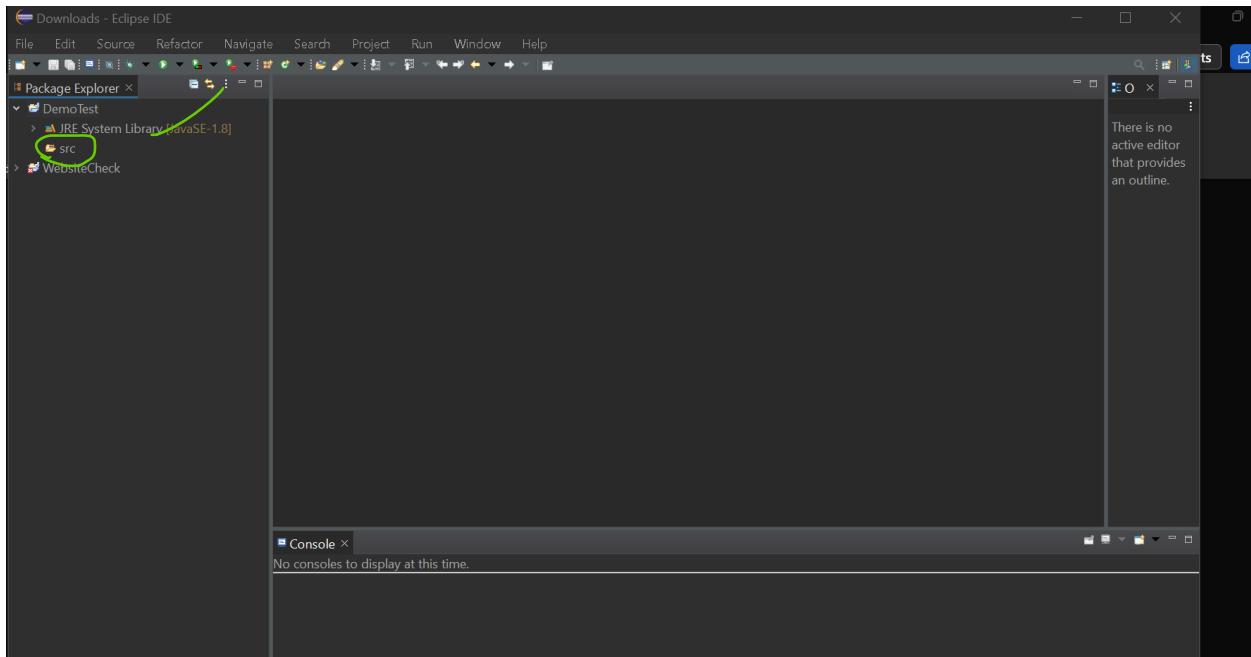
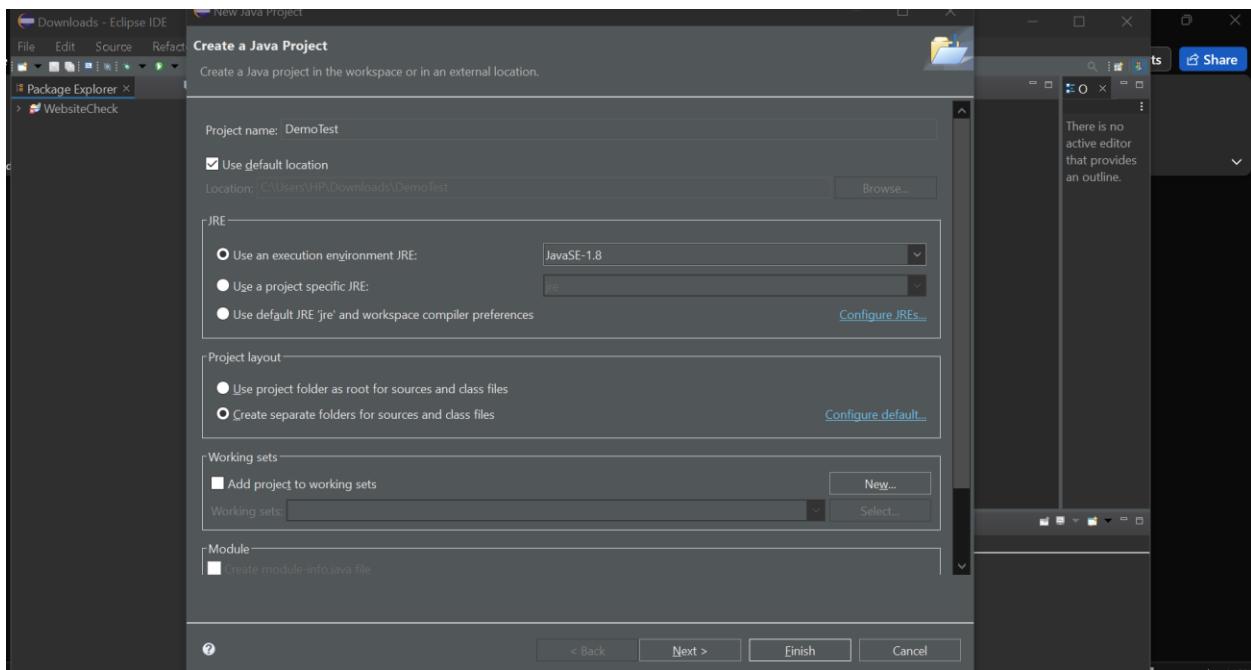
STEP:2**ECLIPSE IDE SET UP AND PROJECT CREATE:**

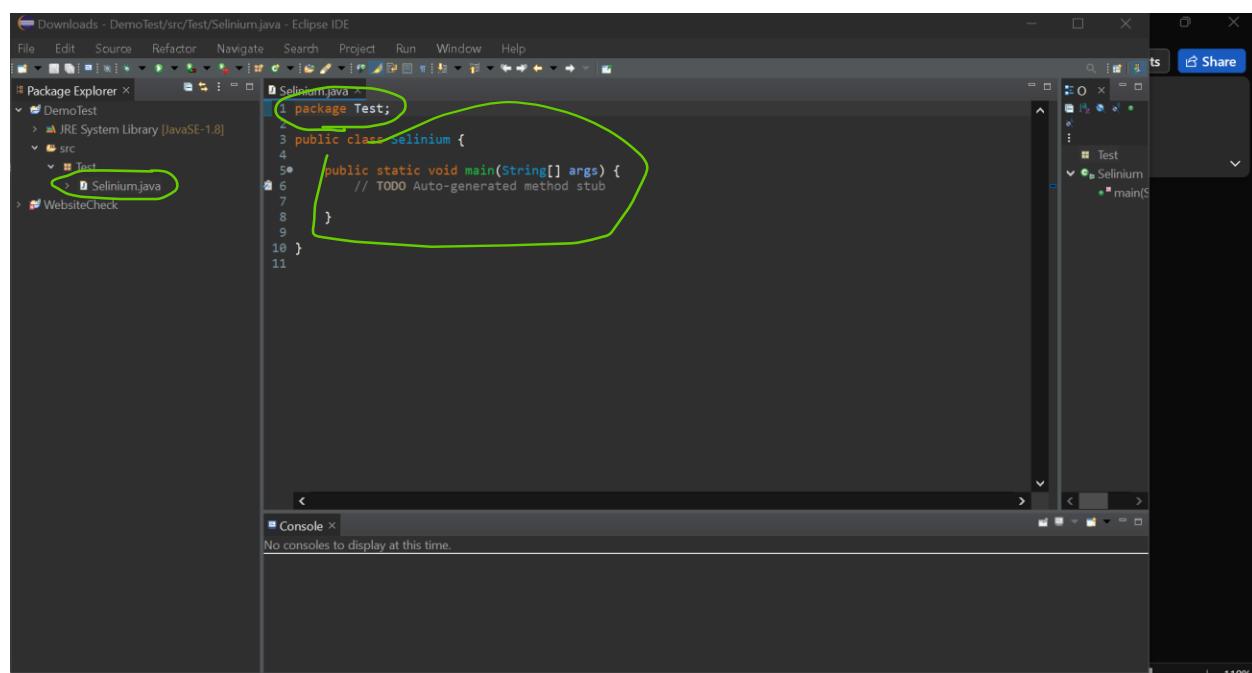
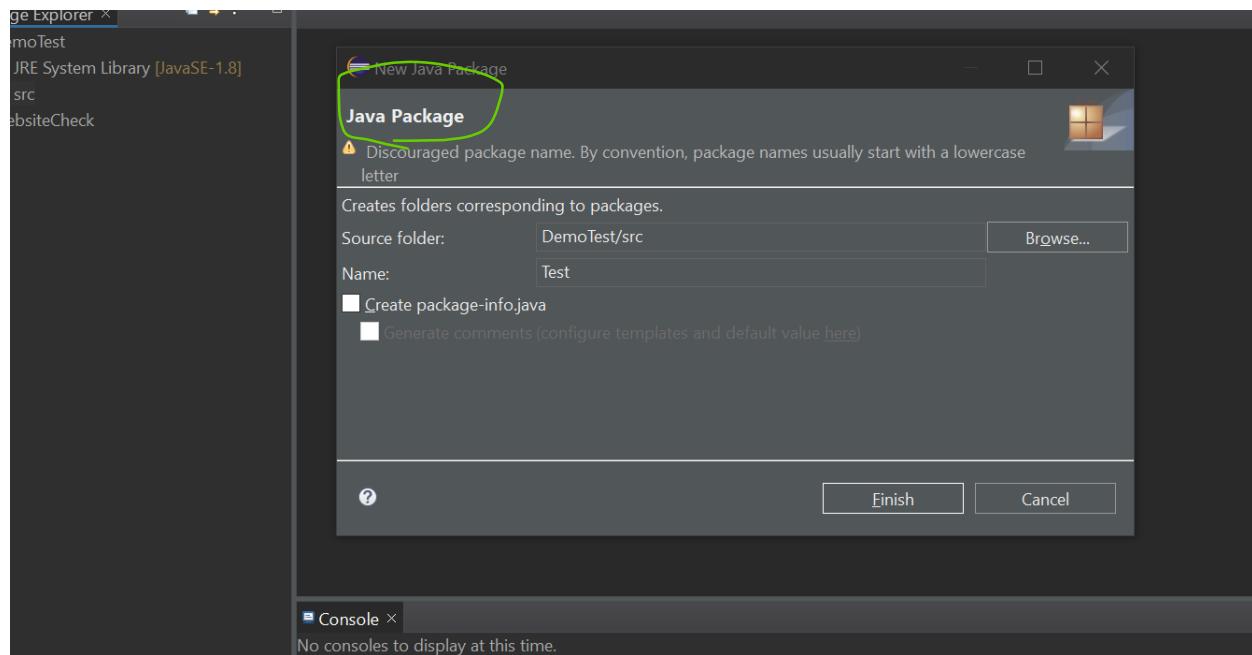
The screenshot shows the Eclipse Installer website interface. At the top right, there is a 'DONATE' button and a menu icon. Below the header, there is a search bar with the placeholder 'type filter text' and a magnifying glass icon. The main content area displays four distinct Eclipse IDE configurations, each with a circular icon and a brief description:

- Eclipse IDE for Java Developers**: The essential tools for any Java developer, including a Java IDE, a Git client, XML Editor, Maven and Gradle...
- Eclipse IDE for Enterprise Java and Web**: Tools for developers working with Java and Web applications, including a Java IDE, tools for JavaScript,...
- Eclipse IDE for C/C++ Developers**: An IDE for C/C++ developers.
- Eclipse IDE for Embedded C/C++ Developers**: (partially visible)



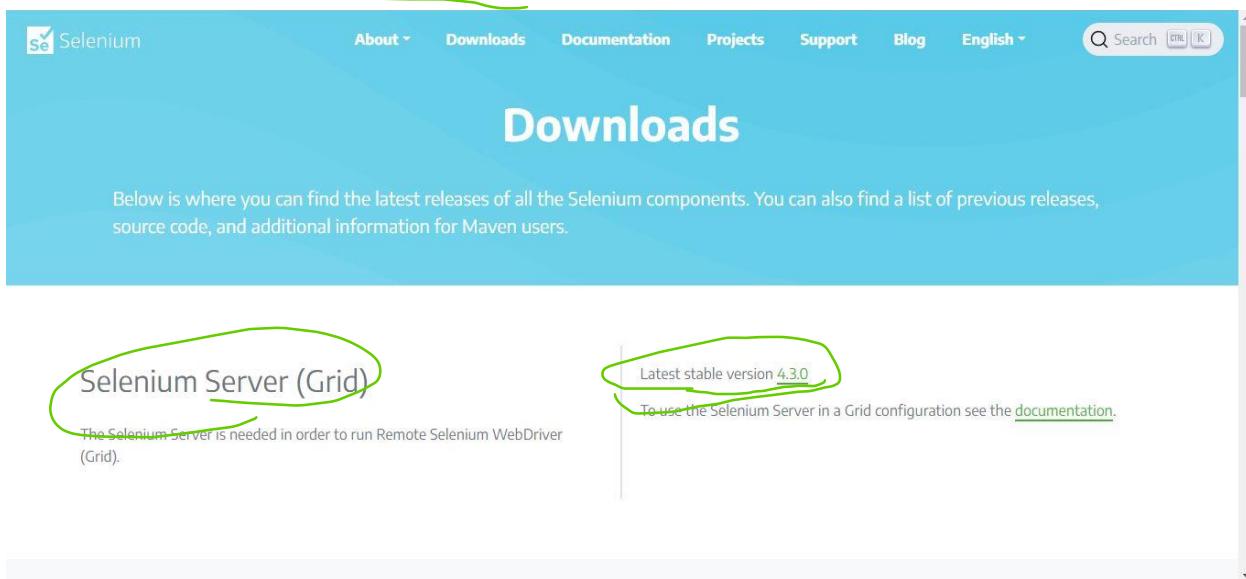
CREATE AN JAVA PROJECT



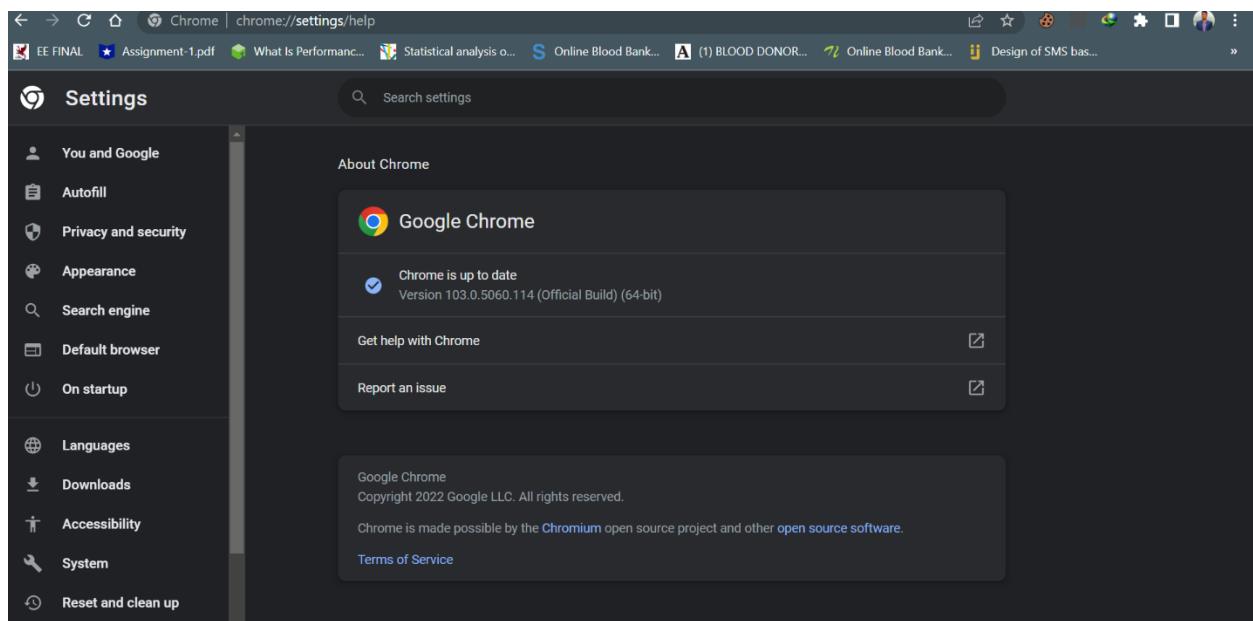
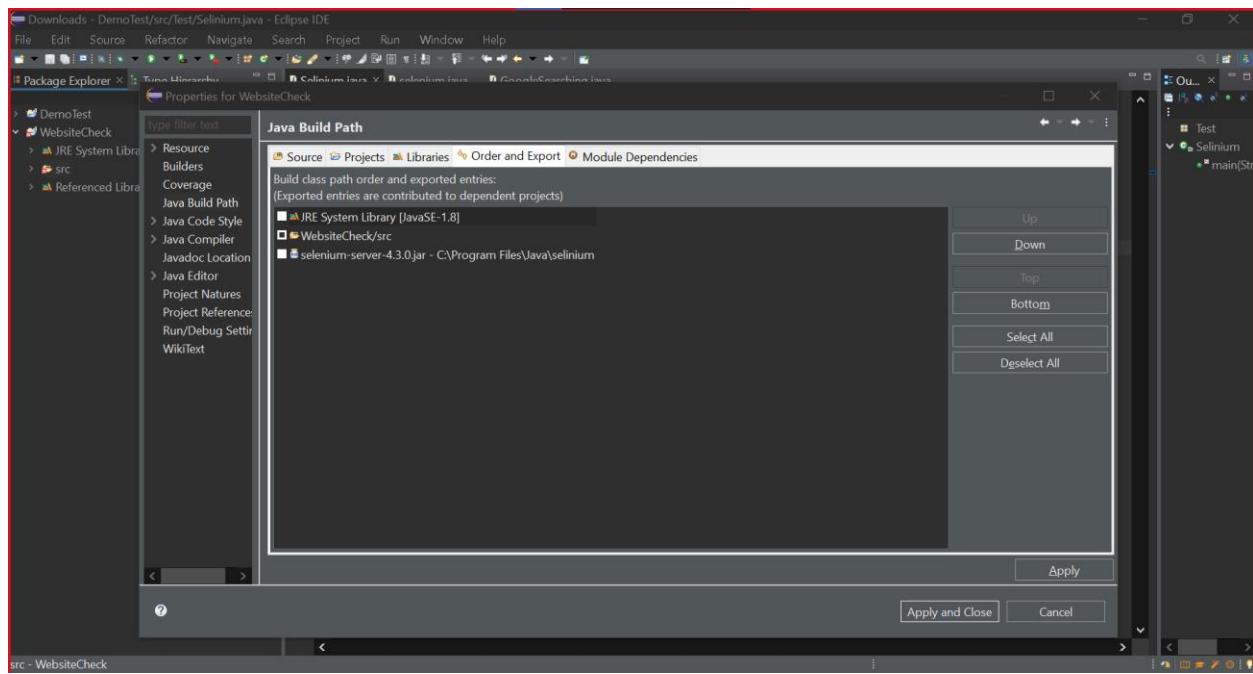


STEP:3

SELENIUM IDE AND CHROME DRIVER INSTALLATION



Added downloaded selenium.jar file into Eclipse IDE



The screenshot shows the official ChromeDriver website. At the top, there's a navigation bar with links for "ChromeDriver", "Capabilities & ChromeOptions", "Chrome Extensions", and "More". Below the navigation is a large dark header with the text "Downloads" in white. Underneath the header, there's a section titled "Current Releases" with a list of download links for different Chrome versions. A note below the list says "If you are using Chrome from Dev or Canary channel, please follow instructions on the [ChromeDriver Canary](#) page." There's also a link to "Version Selection". A specific download link for "ChromeDriver 104.0.5112.29" is highlighted with a red border. The main content area shows a table of files available for download, including "chromedriver_linux64.zip", "chromedriver_mac64.zip", "chromedriver_mac64_m1.zip", "chromedriver_win32.zip", and "notes.txt".

Current Releases

- If you are using Chrome version 104, please download [ChromeDriver 104.0.5112.29](#)
- If you are using Chrome version 103, please download [ChromeDriver 103.0.5060.53](#)
- If you are using Chrome version 102, please download [ChromeDriver 102.0.5005.61](#)
- For older version of Chrome, please see below for the version of ChromeDriver that supports it.

If you are using Chrome from Dev or Canary channel, please follow instructions on the [ChromeDriver Canary](#) page.

For more information on selecting the right version of ChromeDriver, please see the [Version Selection](#) page.

[ChromeDriver 104.0.5112.29](#)

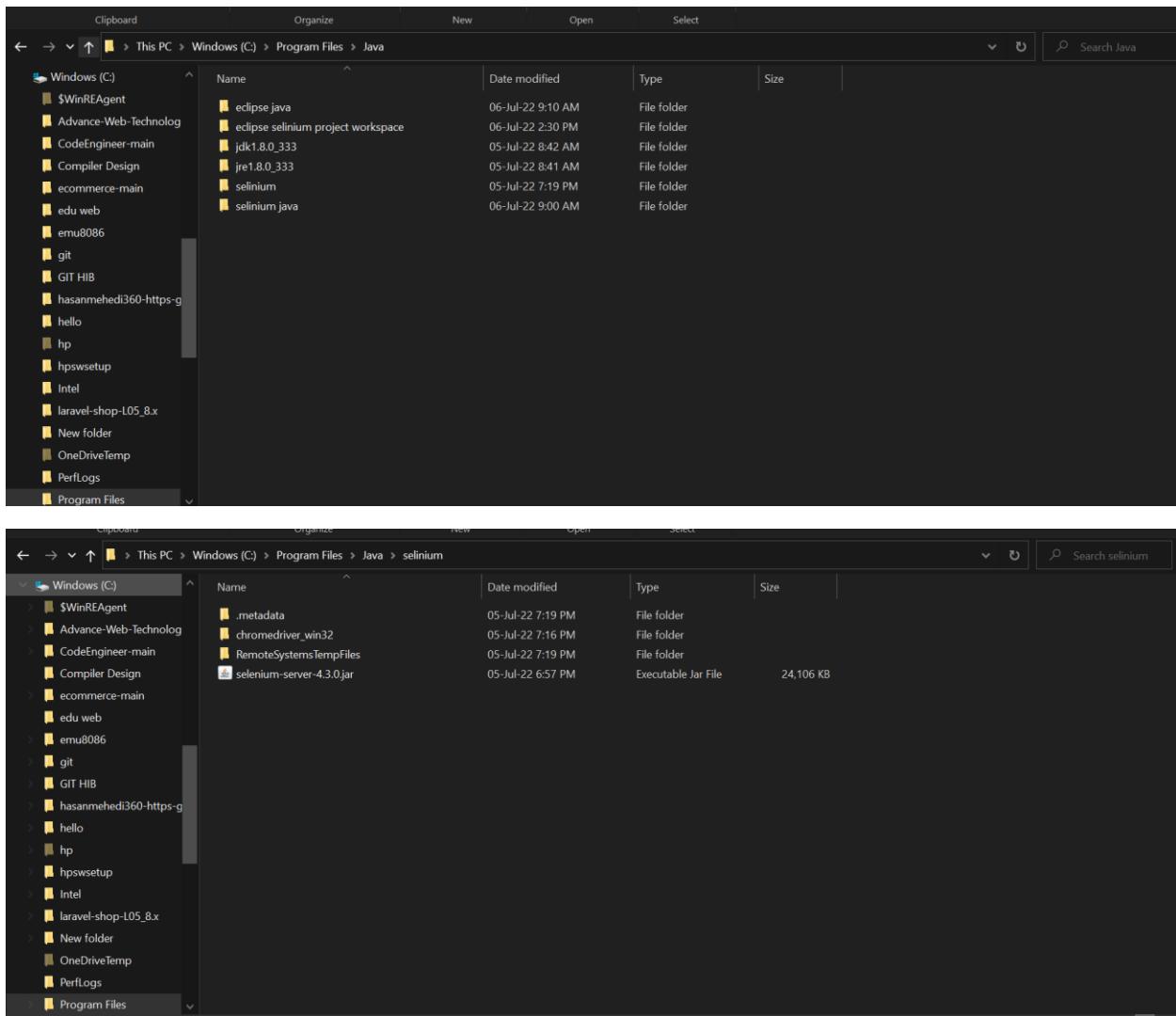


Supports Chrome version 104

Index of /103.0.5060.53/

Name	Last modified	Size	ETag
Parent Directory		-	
chromedriver_linux64.zip	2022-06-22 08:40:24	6.73MB	7024d17105fd68cd6a9dae9d7c184ff8
chromedriver_mac64.zip	2022-06-22 08:40:27	7.99MB	b36af7477b93a3dd5e9d8a2eddc9cba
chromedriver_mac64_m1.zip	2022-06-22 08:40:29	7.28MB	c4261b81ac647c38541ee728301718e5
chromedriver_win32.zip	2022-06-22 08:40:32	6.12MB	797244dcadc6012093c8955463c1c949
notes.txt	2022-06-22 08:40:38	0.00MB	266a503f3ac359d6ddcbab9122c3354

FOLDER SET UP:



The screenshot shows two instances of Windows File Explorer. The top window displays the contents of the 'Java' folder located at 'Windows (C) > Program Files'. The bottom window shows the contents of the 'selenium' folder located at 'Windows (C) > Program Files > Java'.

Java Folder Content (Top Window):

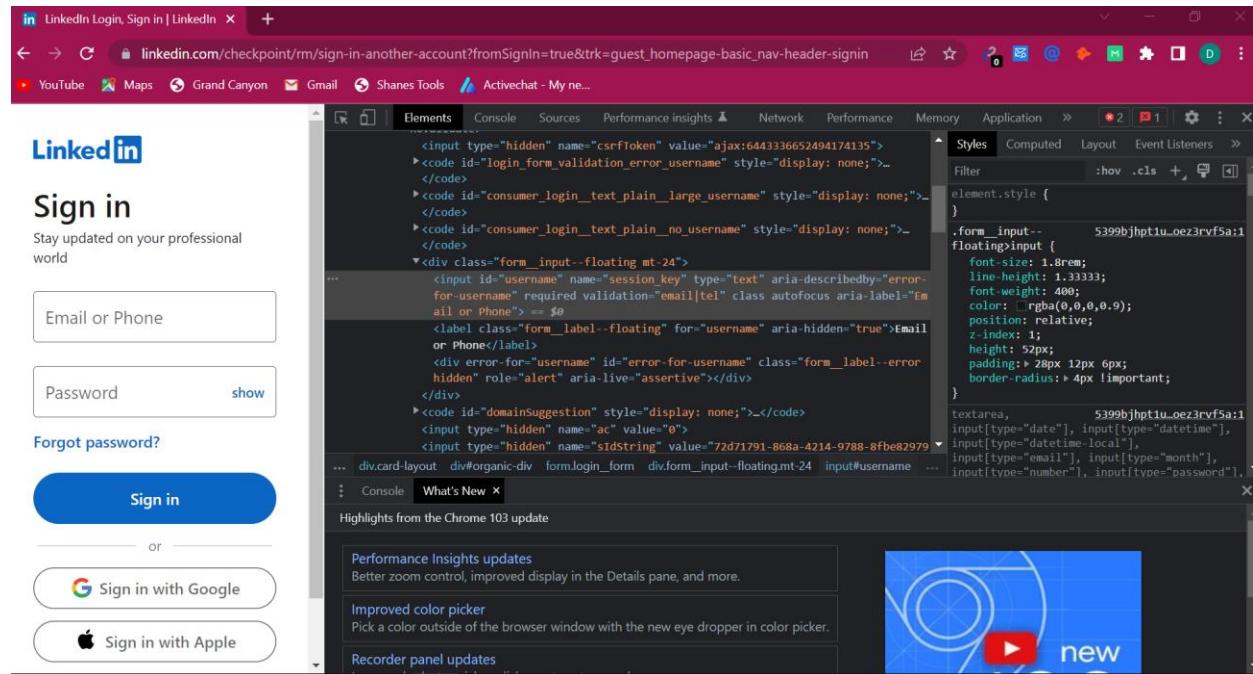
Name	Date modified	Type	Size
eclipse java	06-Jul-22 9:10 AM	File folder	
eclipse selenium project workspace	06-Jul-22 2:30 PM	File folder	
jdk1.8.0_333	05-Jul-22 8:42 AM	File folder	
jre1.8.0_333	05-Jul-22 8:41 AM	File folder	
selenium	05-Jul-22 7:19 PM	File folder	
selenium.java	06-Jul-22 9:00 AM	File folder	

selenium Folder Content (Bottom Window):

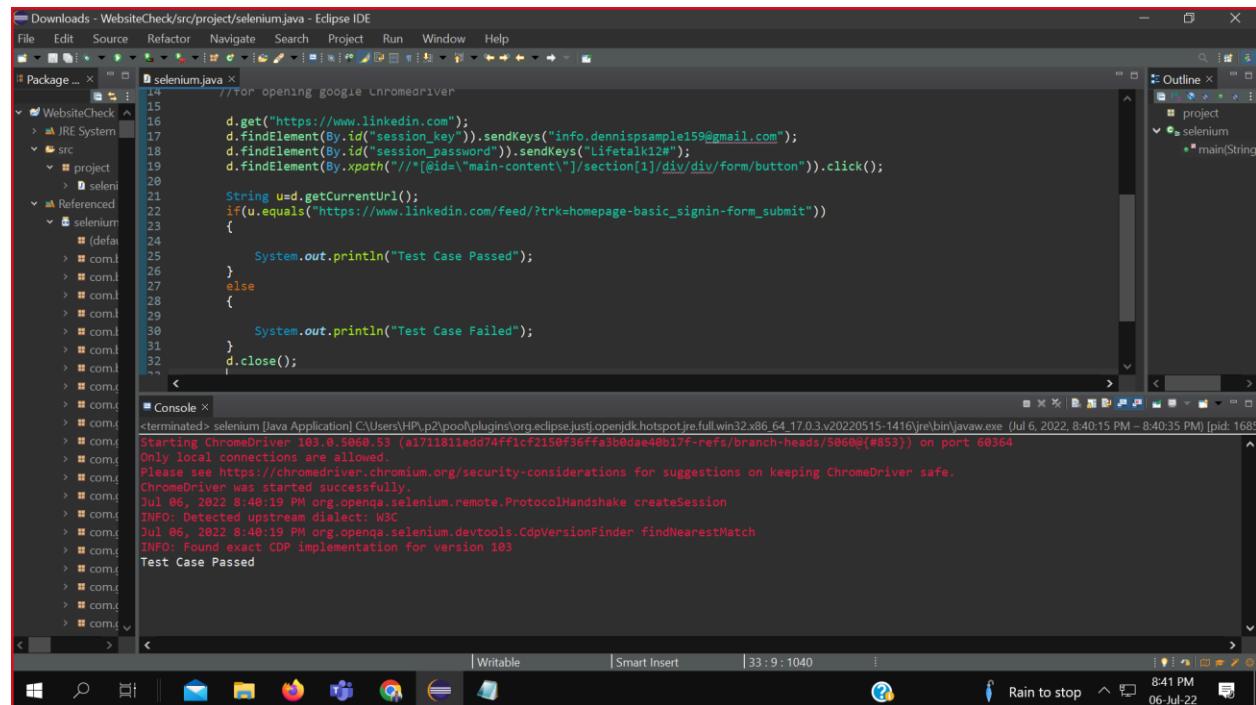
Name	Date modified	Type	Size
.metadata	05-Jul-22 7:19 PM	File folder	
chromedriver_win32	05-Jul-22 7:16 PM	File folder	
RemoteSystemsTempFiles	05-Jul-22 7:19 PM	File folder	
selenium-server-4.3.0.jar	05-Jul-22 6:57 PM	Executable Jar File	24,106 KB

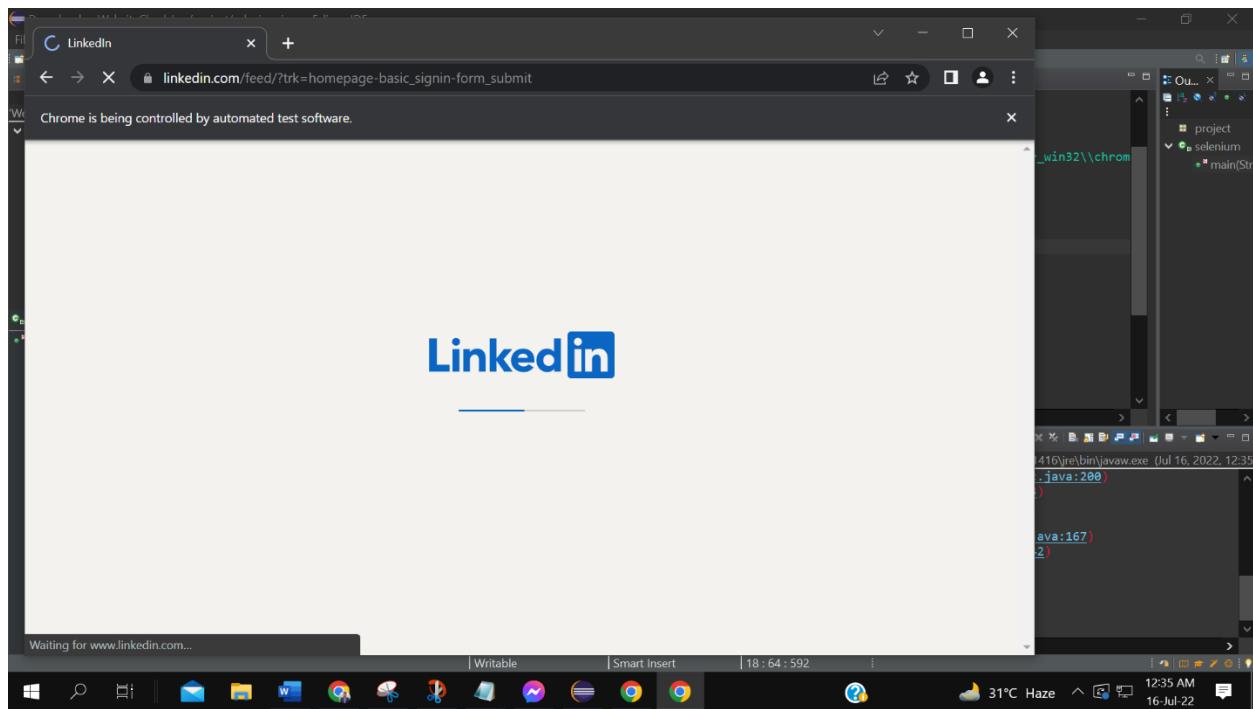
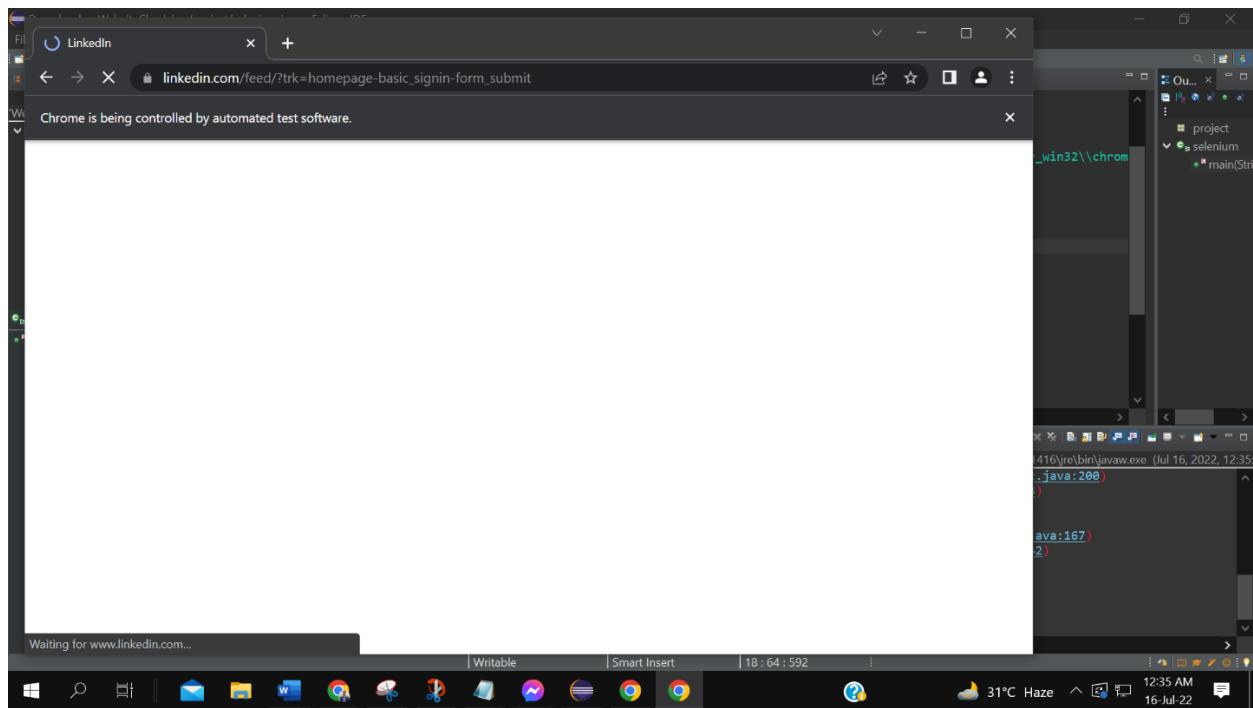
TESTING WITH ECLIPSE IDE & SELLINIUM

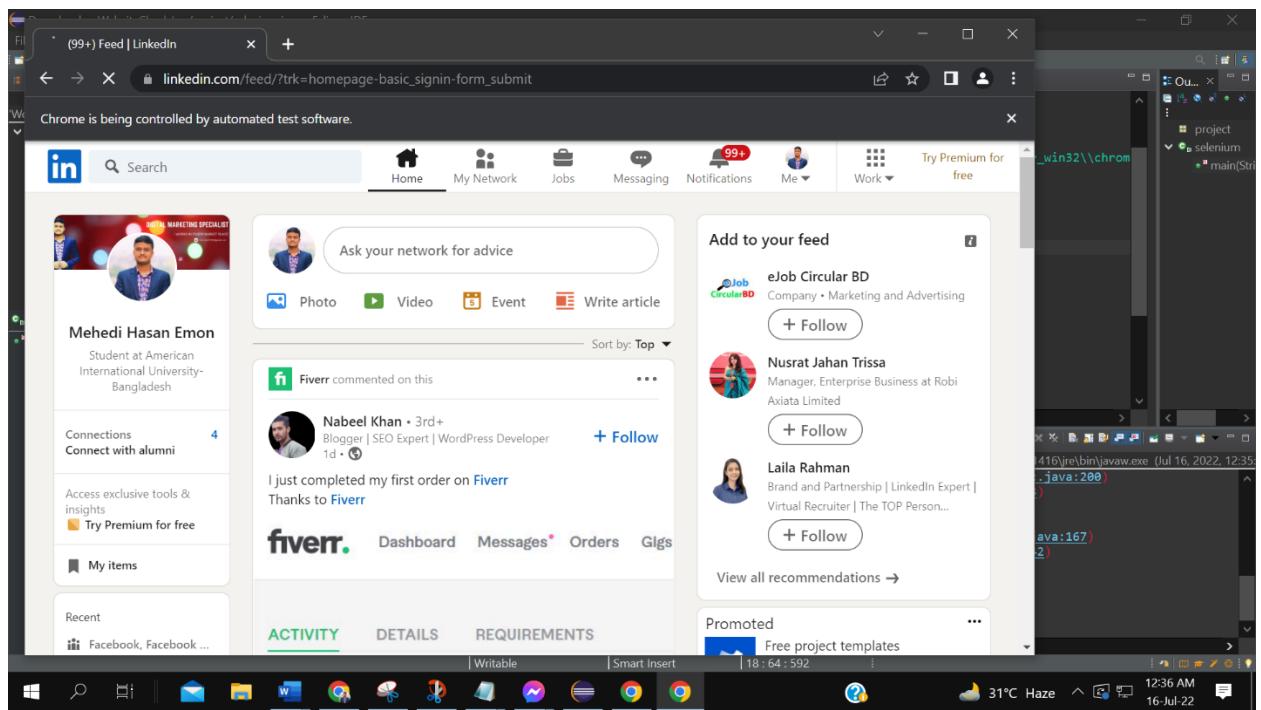
LINKEDIN LOG IN CHECK



When user credential are okay





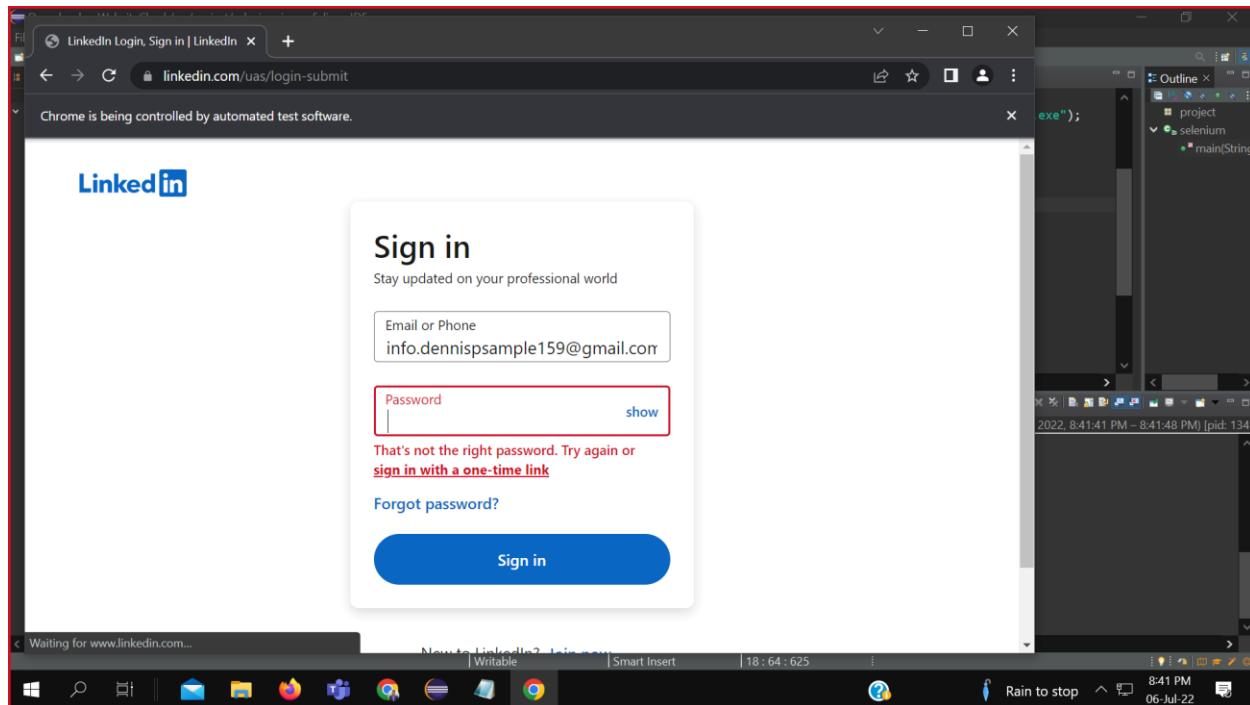


Downloads - WebsiteCheck/src/project/selenium.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
Package ... Project selenium/mainString
selenium.java
3: import org.openqa.selenium.By;
4: import org.openqa.selenium.WebDriver;
5: import org.openqa.selenium.chrome.ChromeDriver;
6:
7: public class selenium {
8:     public static void main(String[] args) {
9:         System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\Java\\selenium\\chromedriver_win32\\chromedriver.exe");
10:        WebDriver d=new ChromeDriver();
11:        //for opening google Chromedriver
12:        d.get("https://www.linkedin.com");
13:        d.findElement(By.id("session_key")).sendKeys("info.dennissample159@gmail.com");
14:        d.findElement(By.id("session_password")).sendKeys("Lifelek12#");
15:        d.findElement(By.xpath("//*[@id='main-content']//section[1]/div/div/form/button")).click();
16:    }
17: }
Test Case Failed
```

Console [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86_64_17.0.3.v20220515-1416\jre\bin\javaw.exe (Jul 6, 2022, 8:43:00 PM) [pid: 13728]

```
Starting ChromeDriver 103.0.5068.53 (a17181edd74ff1cf2150f36ffa3bdae40b17f-refs/branch-heads/5060@{#853}) on port 63494
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 06, 2022 8:43:03 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected upstream dialect: W3C
Jul 06, 2022 8:43:03 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found exact CDP implementation for version 103
Test Case Failed
```



TEST 2: GMAIL LOG IN TEST

Screenshot of Eclipse IDE showing a Java Selenium test for Gmail login.

```

public class Gmaillogin {
    @SuppressWarnings("deprecation")
    public static void main(String[] args) {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "C:\\Program Files\\Java\\selenium\\chromedriver_win32\\chromedriver.exe");
        WebDriver driver= new ChromeDriver();
        driver.manage().timeouts().implicitlyWait(60, TimeUnit.SECONDS);
        driver.get("https://www.gmail.com");
        driver.findElement(By.id("identifierId")).sendKeys("mehedi778t@gmail.com");
        driver.findElement(By.xpath("//[@id='identifierNext']")).click();
        driver.findElement(By.name("password")).sendKeys("12345678#Ab#1");
        driver.findElement(By.xpath("//[@id='passwordNext']")).click();
        // click on the profile icon
        driver.findElement(By.xpath("//*[@id='gb']/div[2]/div[3]/div/div[2]/div/a")).click();
        // click on the sign out
        WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(20));
        WebElement Test = wait.until(ExpectedConditions.visibilityOfElementLocated(By.xpath("//a[contains(text(),'Sign out')]")));
    }
}

```

Console output:

```

Gmaillogin [Java Application] C:\Users\HP\p2\pool\plugins\org.eclipse.jdt.core\openjdk.hotspotJRE\full\win32\x86_64\17.0.3.v20220515-1416\jre\bin\javaw.exe (Jul 16, 2022, 2:22:20 AM) [pid: 2]
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Jul 16, 2022 2:22:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected upstream dialect: W3C
Jul 16, 2022 2:22:23 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
INFO: Found exact CDP implementation for version 103

```

Screenshot of Google Accounts sign-in page in a browser, with the developer tools Elements tab open, inspecting the email input field.

Google Accounts Sign in - Google Accounts

Sign in
Use your Google Account

Email or phone

Forgot email?

Not your computer? Use Guest mode to sign in privately. [Learn more](#)

Create account Next

English (United States) ▾

Help Privacy Terms

Performance Insights updates
Improved color picker
Recorder panel updates

Styles Computed Layout >

element.style { }

.N3 /accounts/s_itial_css:1

wyfe .Wic03c .jjwyfe

.zHQkBf .jjwyfe .iHd5yb,

.jjwyfe .MQL3Ob {

direction: ltr;

text-align: left;

.L3 /accounts/s_itial_css:1

Hzgf .zHQkBf {

-webkit-border-radius: 4px

border-radius: 4px;

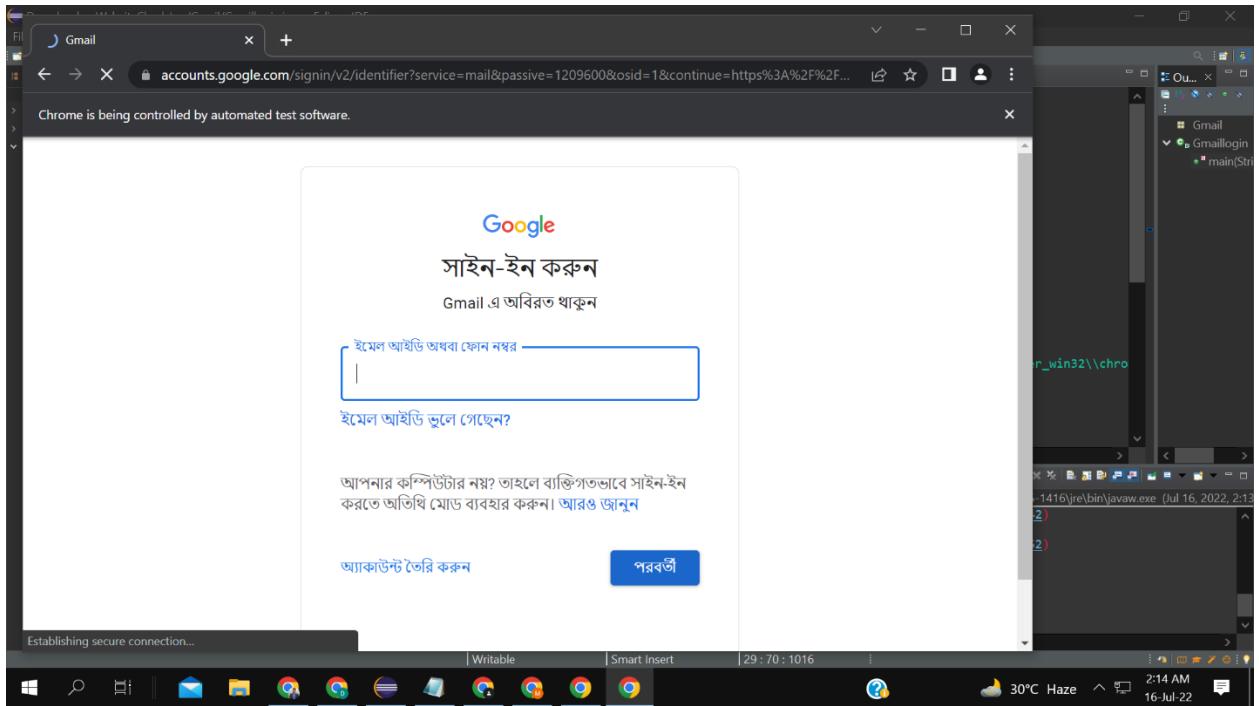
color: #202124;

font-size: 16px;

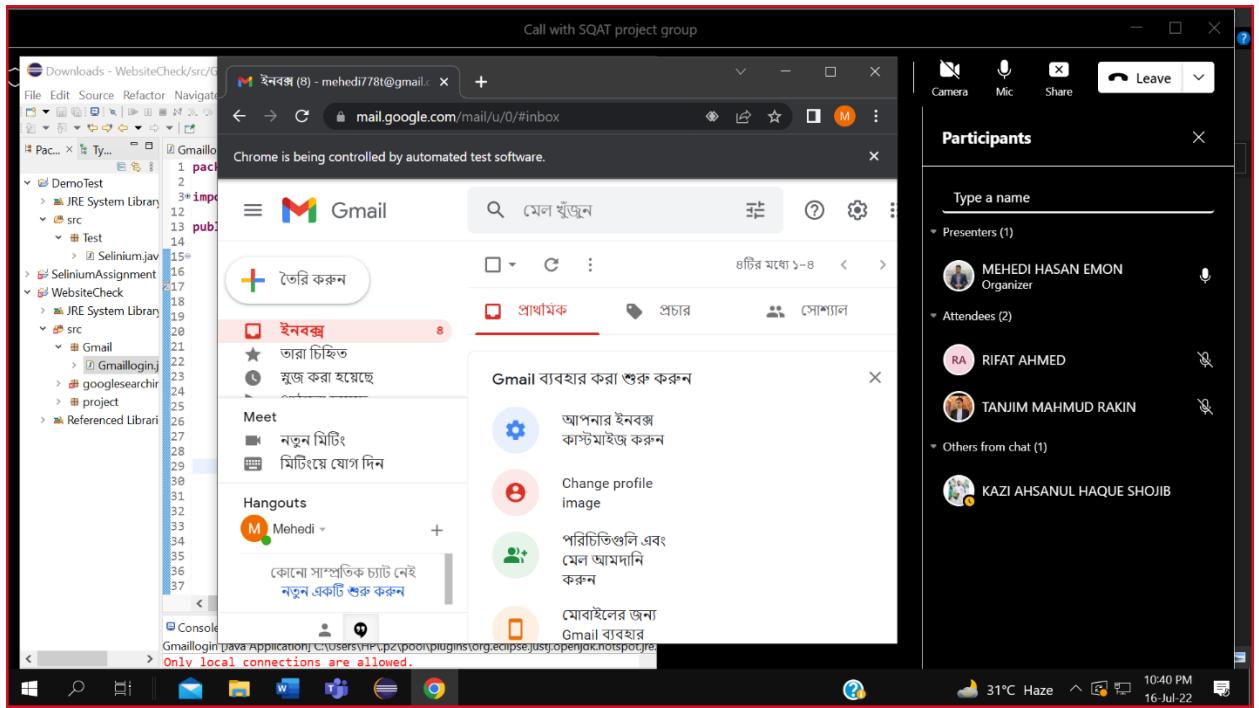
height: 28px;

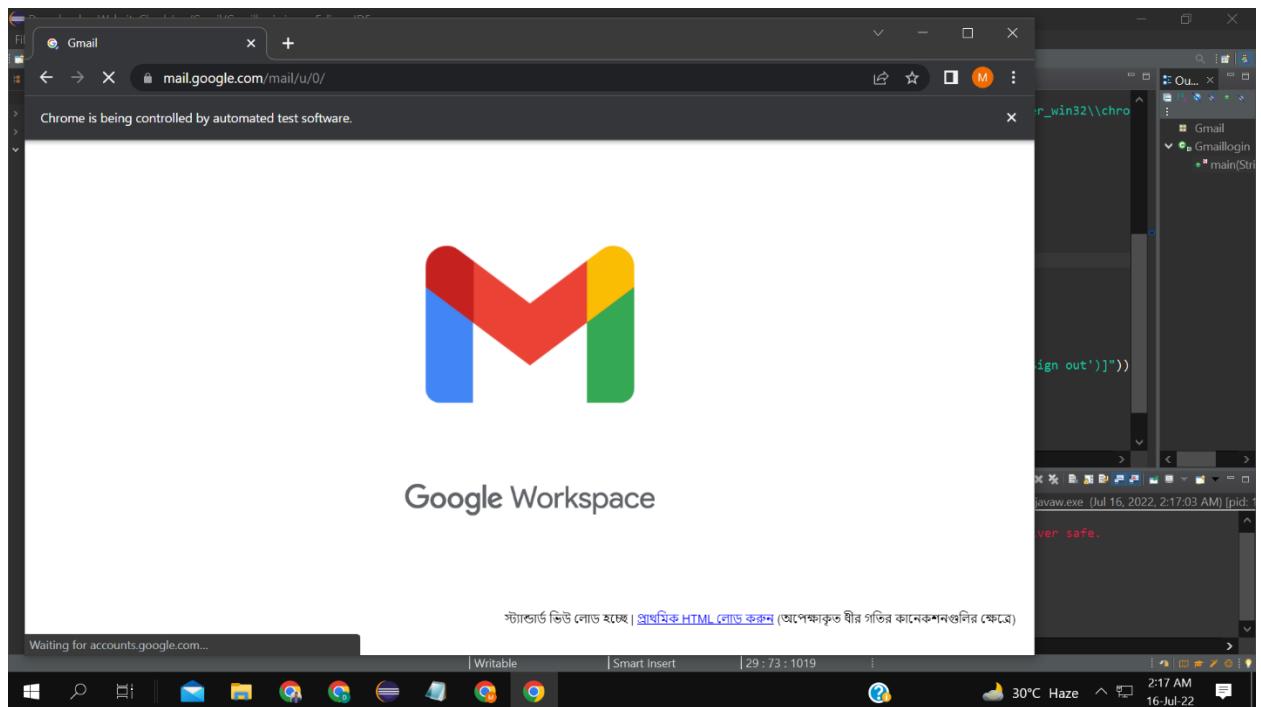
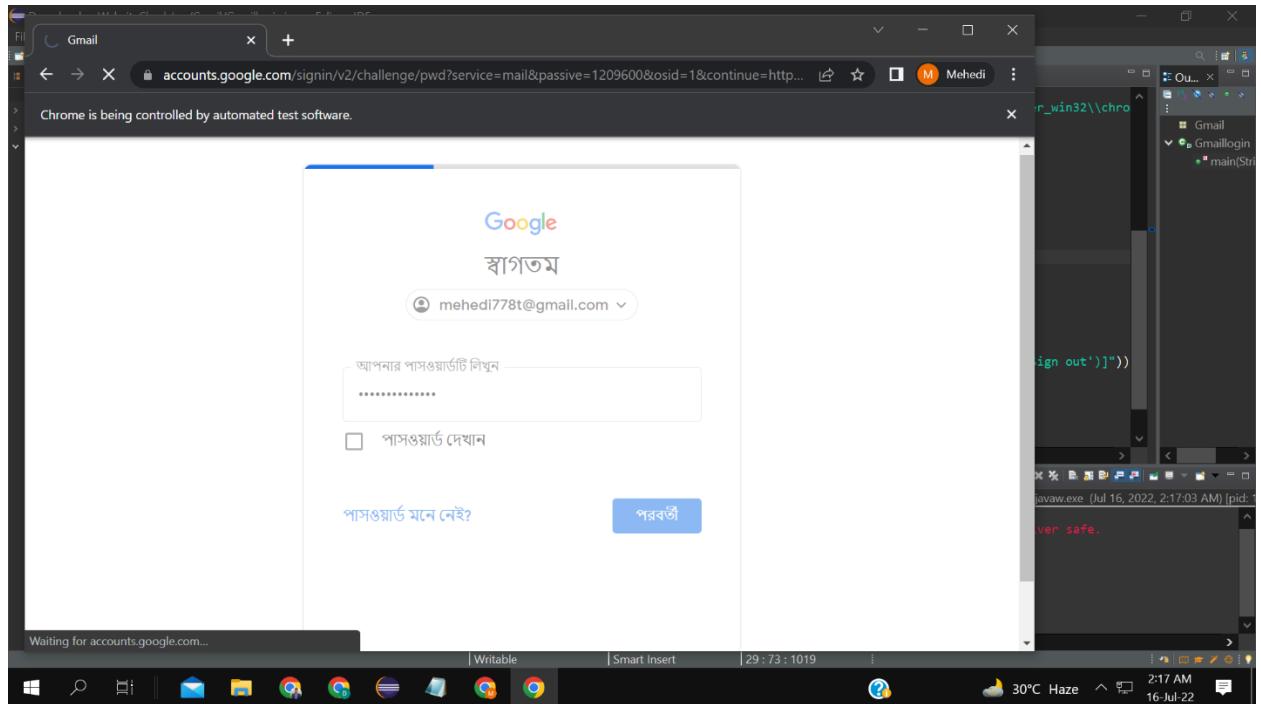
margin: 1px 1px 0 1px;

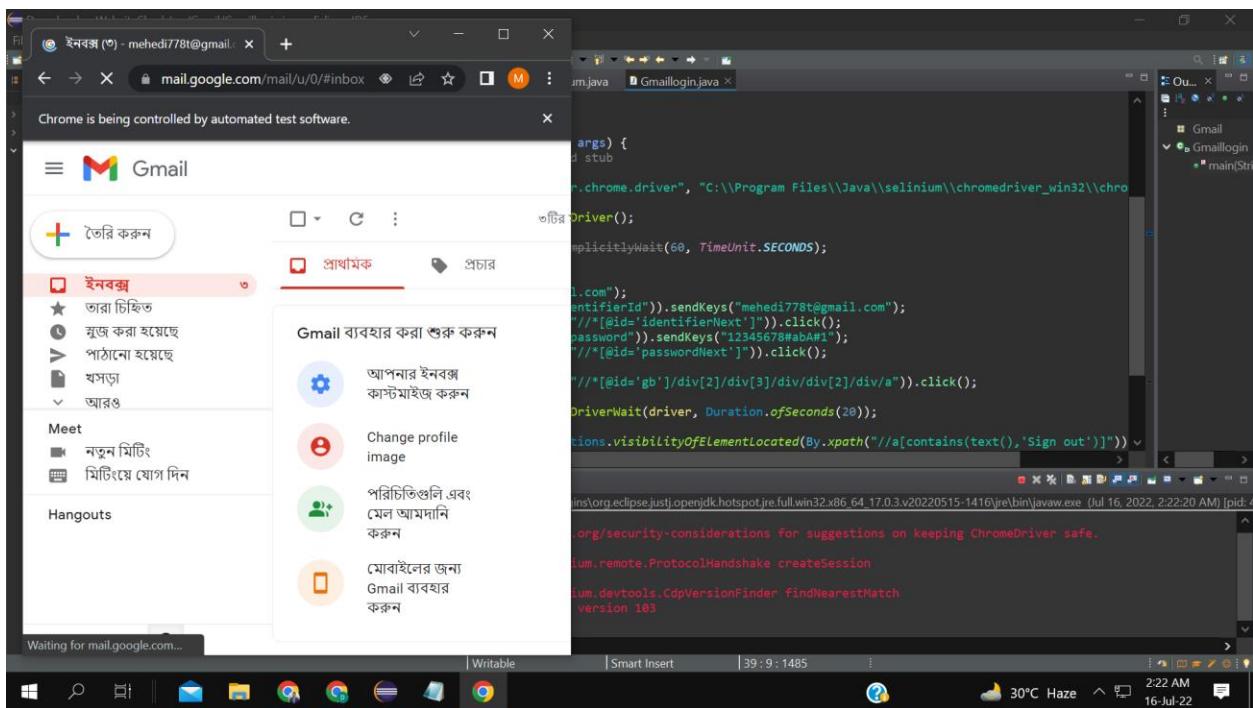
outline: 1px solid #555;



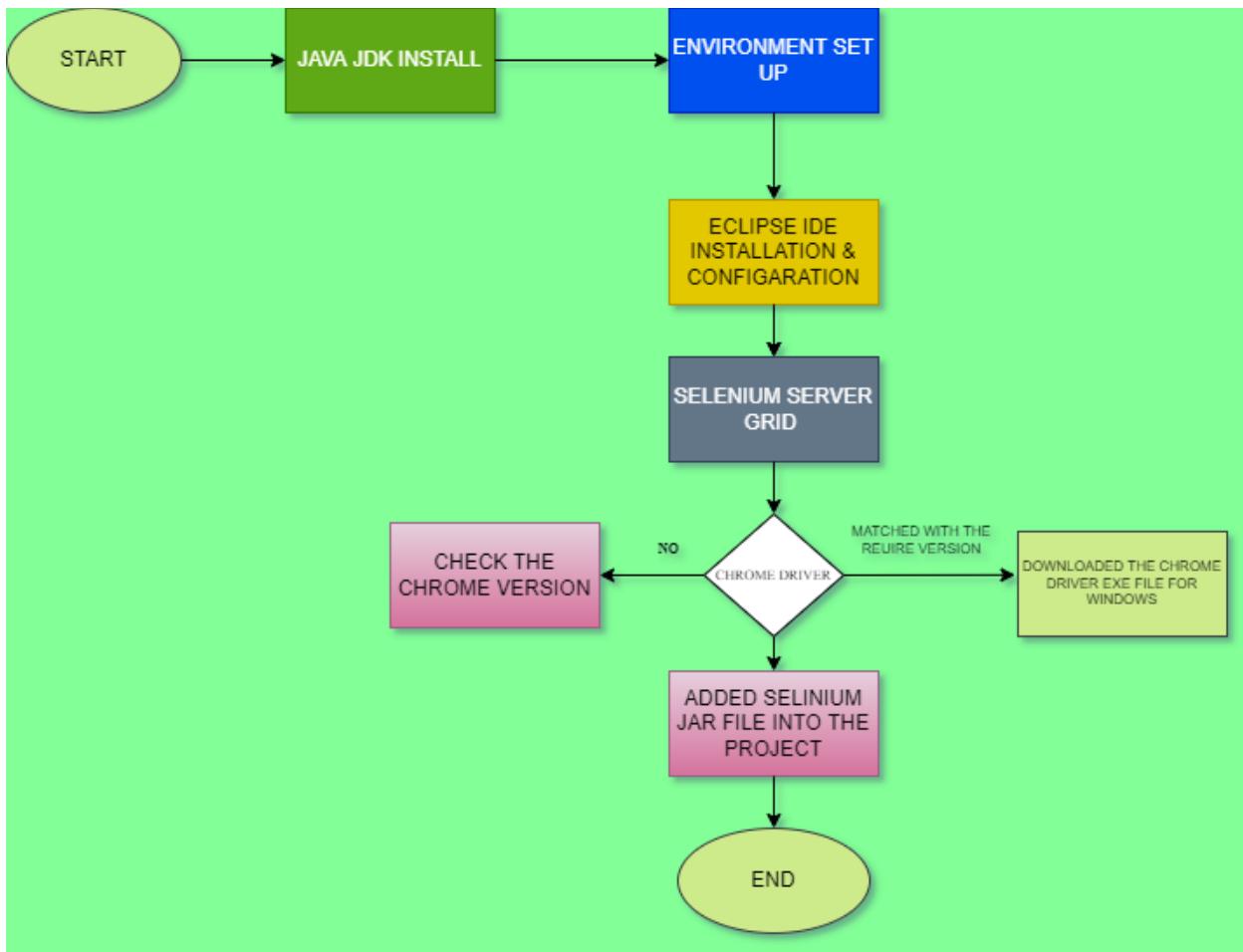
Gmail login testing with the presence of group members





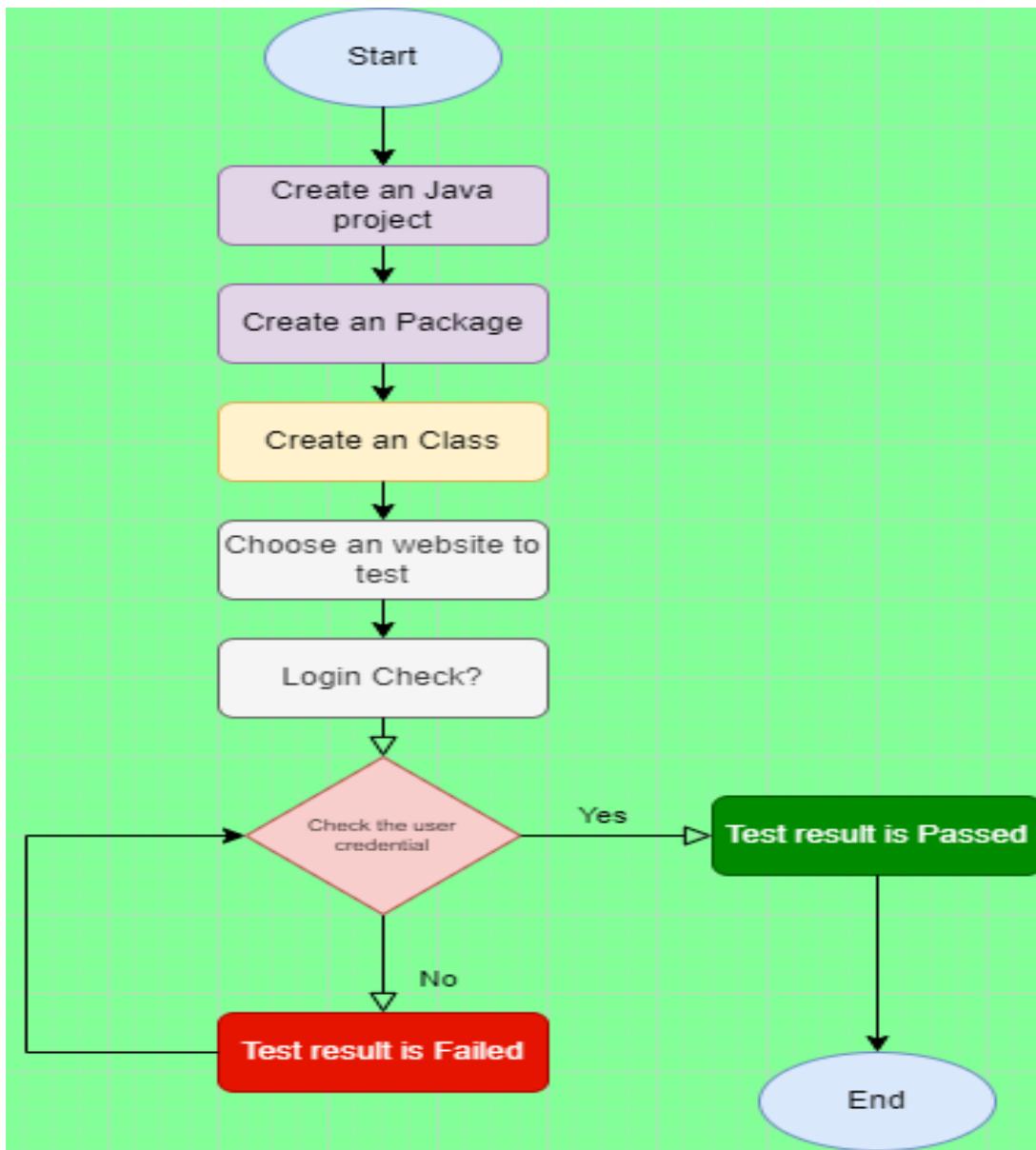


FLOWCHART AND DESCRIPTION:



Description:

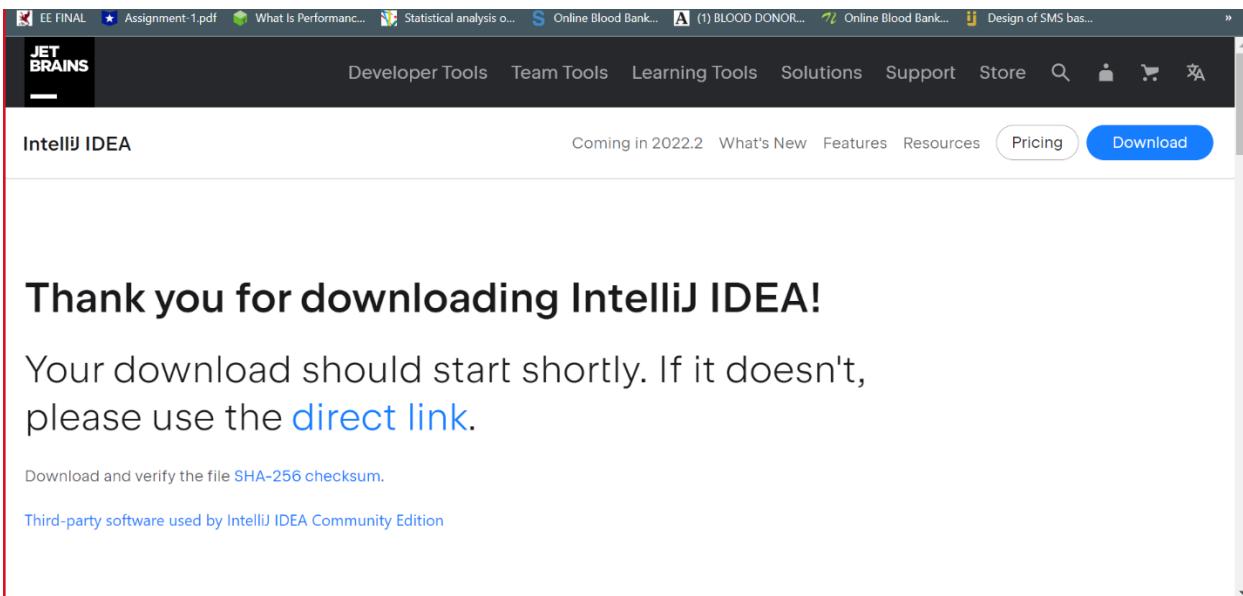
First, we need to download the jdk and Jre file. Then we need to set-up the environment variable for the Java. We have downloaded the Eclipse IDE for Java. After Downloading the eclipse IDE. We need to download the selenium grid server. We also downloaded the Chrome driver. For Chrome driver We need to check the Chrome version. According to the chrome version, we have downloaded the Chrome driver exe file. Then we just simply open the eclipse IDE. we need to set-up the selenium jar file into the eclipse ide. For that we need to go to the project file then build path-configure build -add external jar -selenium jar file



Description:

First, we must open the Eclipse IDE. Then we have created an project. Under the project file, we have created an package, then we have created an class. For testing purpose, we have choosen LinkedIn Website. The test result was passed whenever the email and password are matched. If the username and password didn't match the test result was failed.

INTELLIJ IDEA INSTALL, CONFIGURATION, PROJECT CREATION:



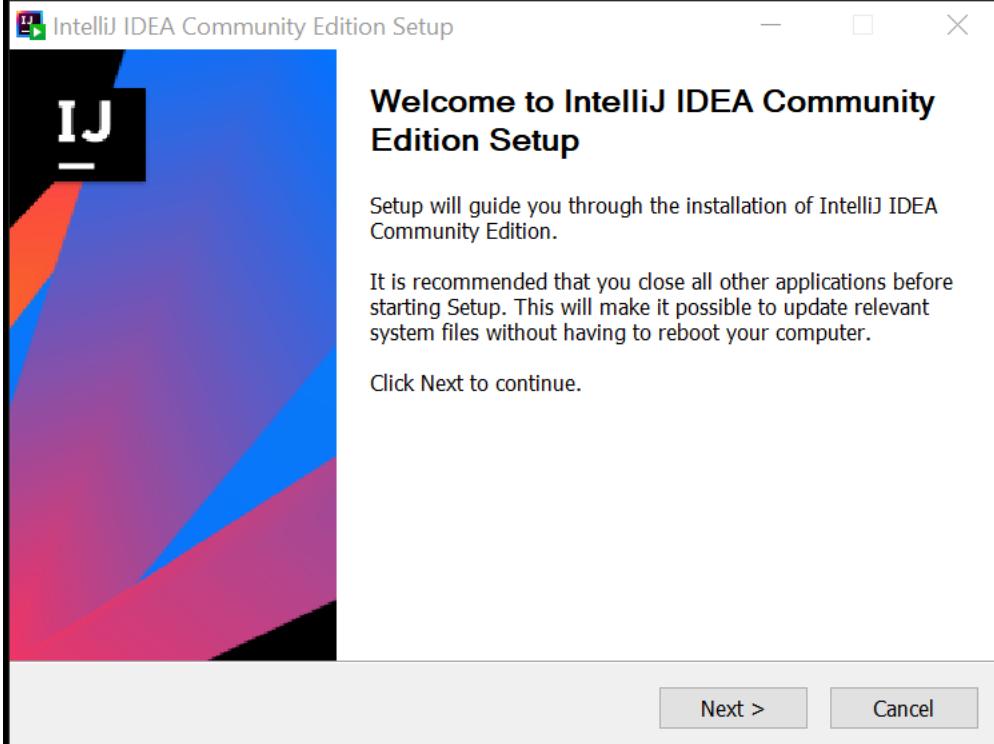
The screenshot shows the official IntelliJ IDEA website. At the top, there's a navigation bar with links for "Developer Tools", "Team Tools", "Learning Tools", "Solutions", "Support", "Store", a search icon, and user account icons. Below the navigation is a main header with "IntelliJ IDEA" on the left and "Coming in 2022.2" followed by "What's New", "Features", "Resources", "Pricing", and a prominent blue "Download" button on the right.

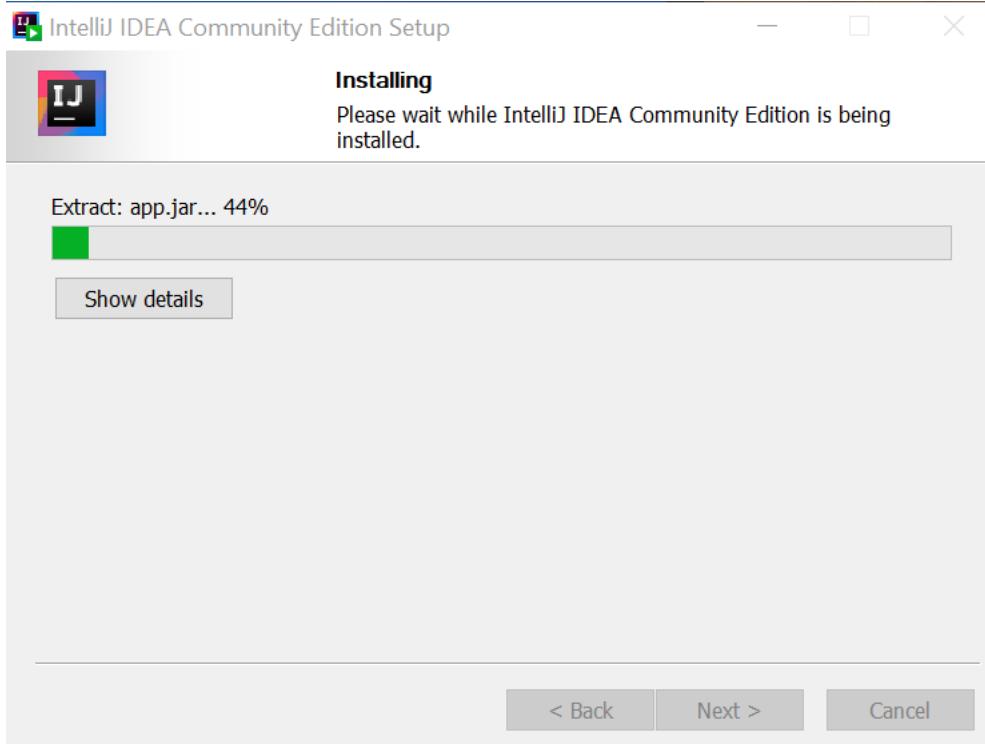
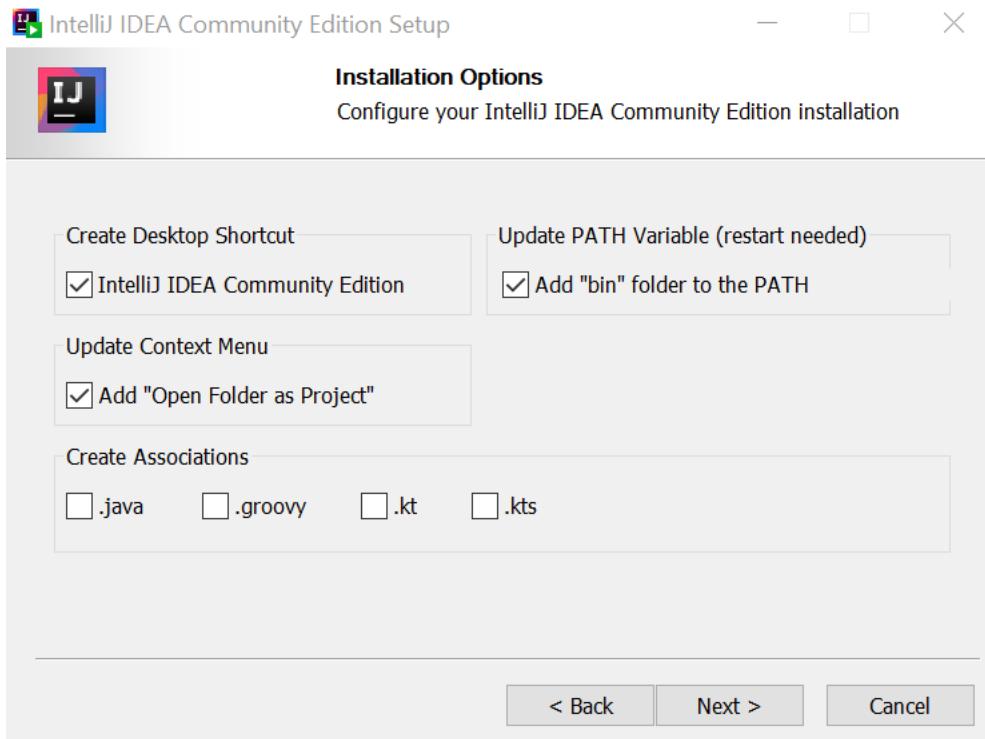
Thank you for downloading IntelliJ IDEA!

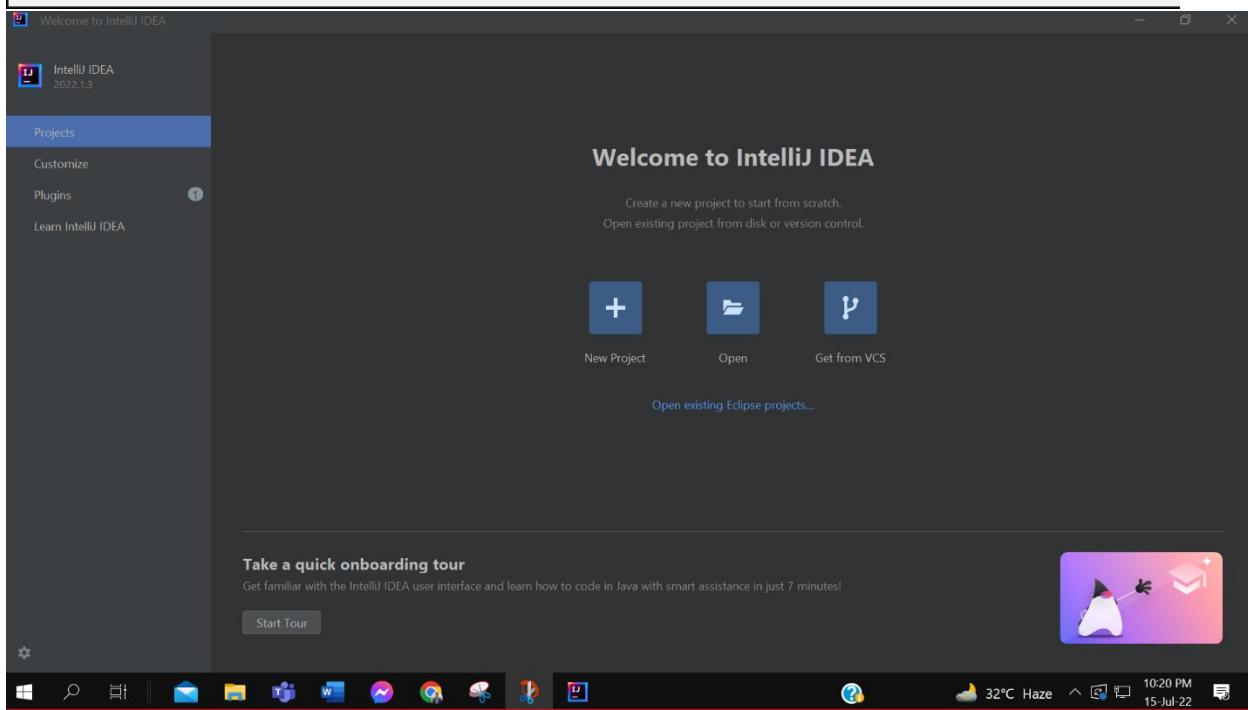
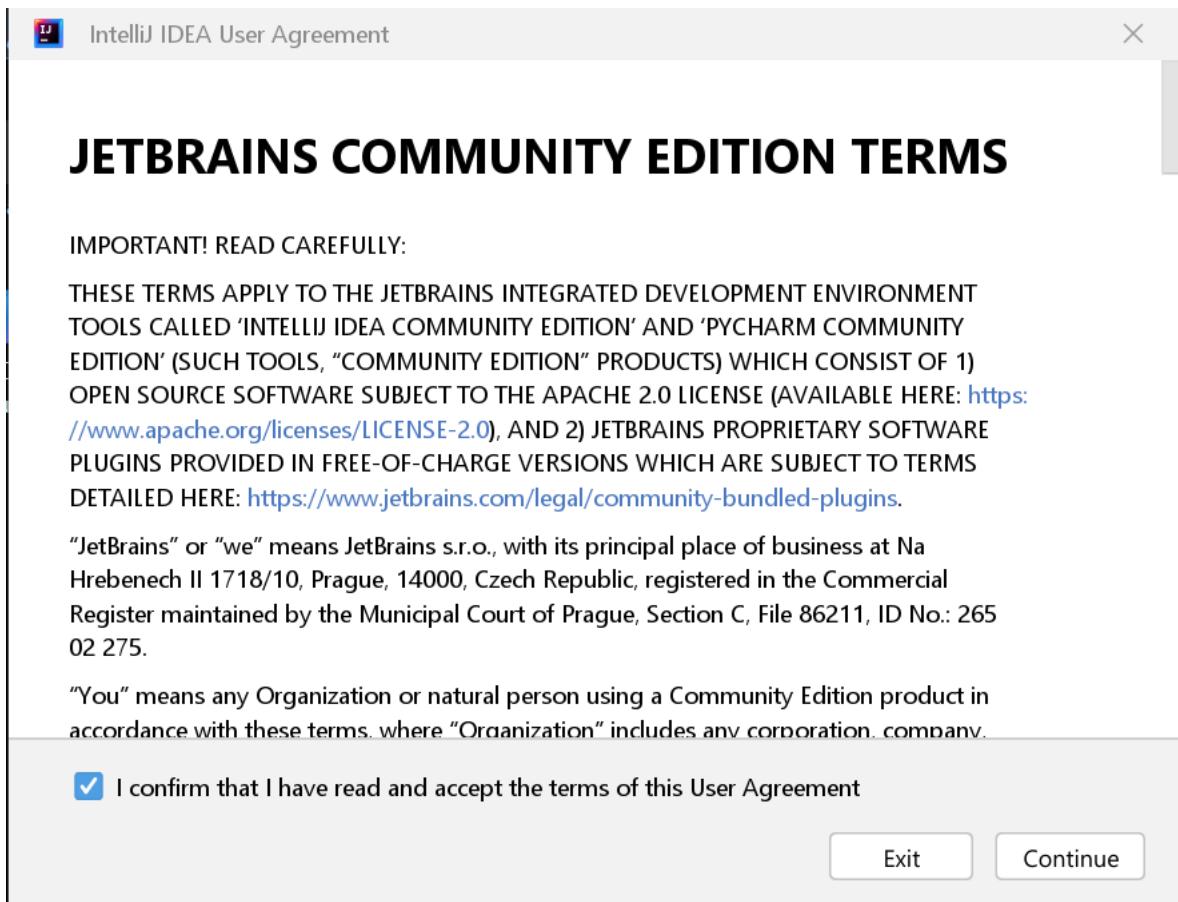
Your download should start shortly. If it doesn't, please use the [direct link](#).

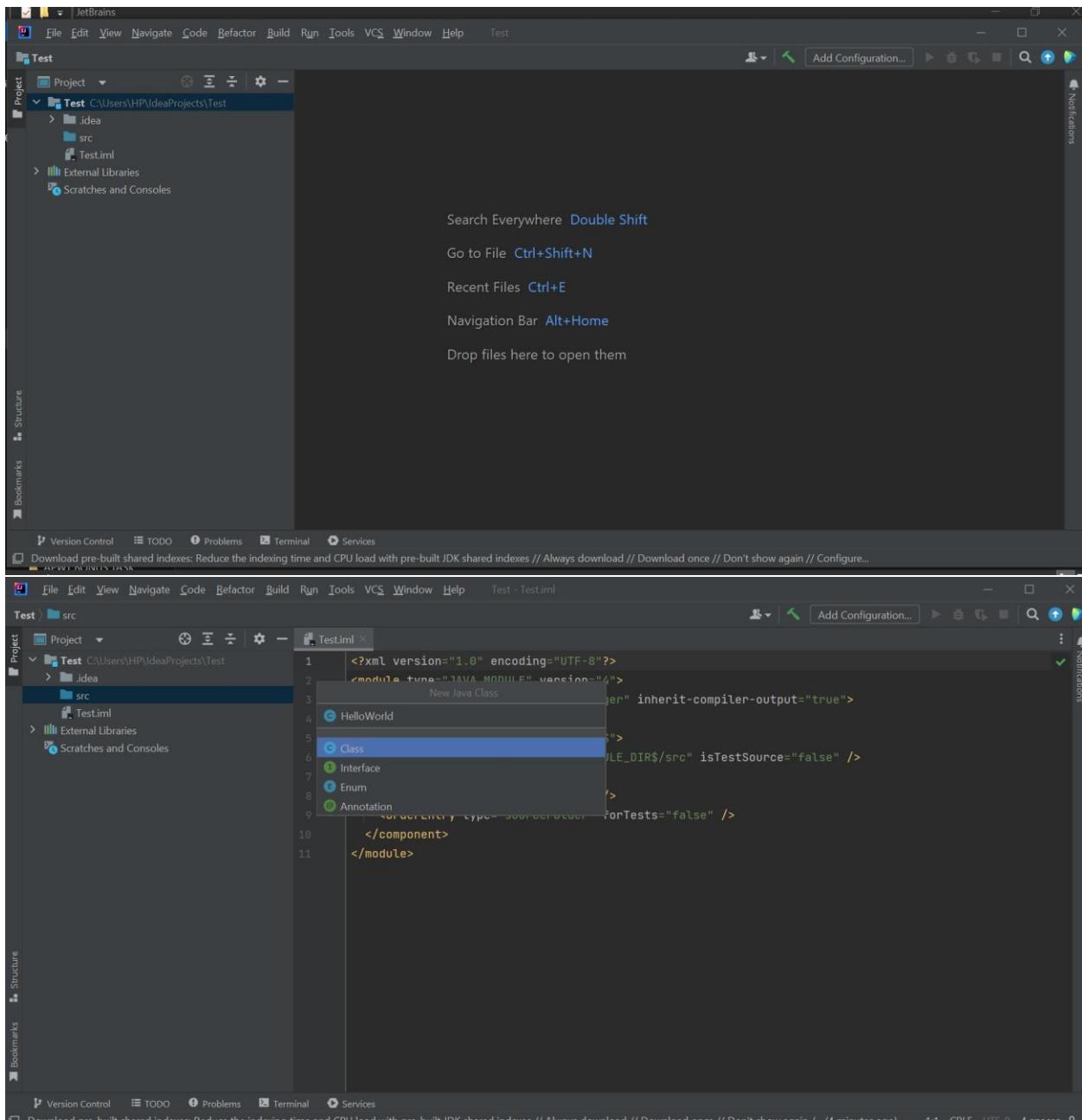
Download and verify the file [SHA-256 checksum](#).

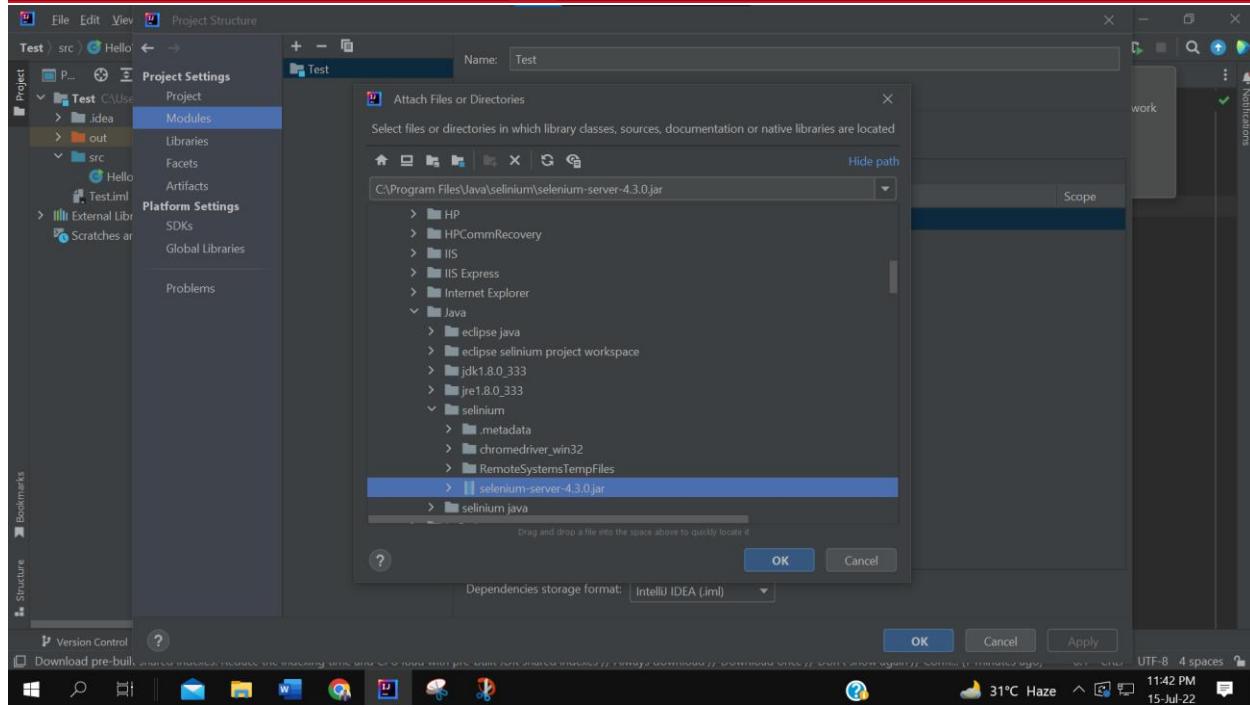
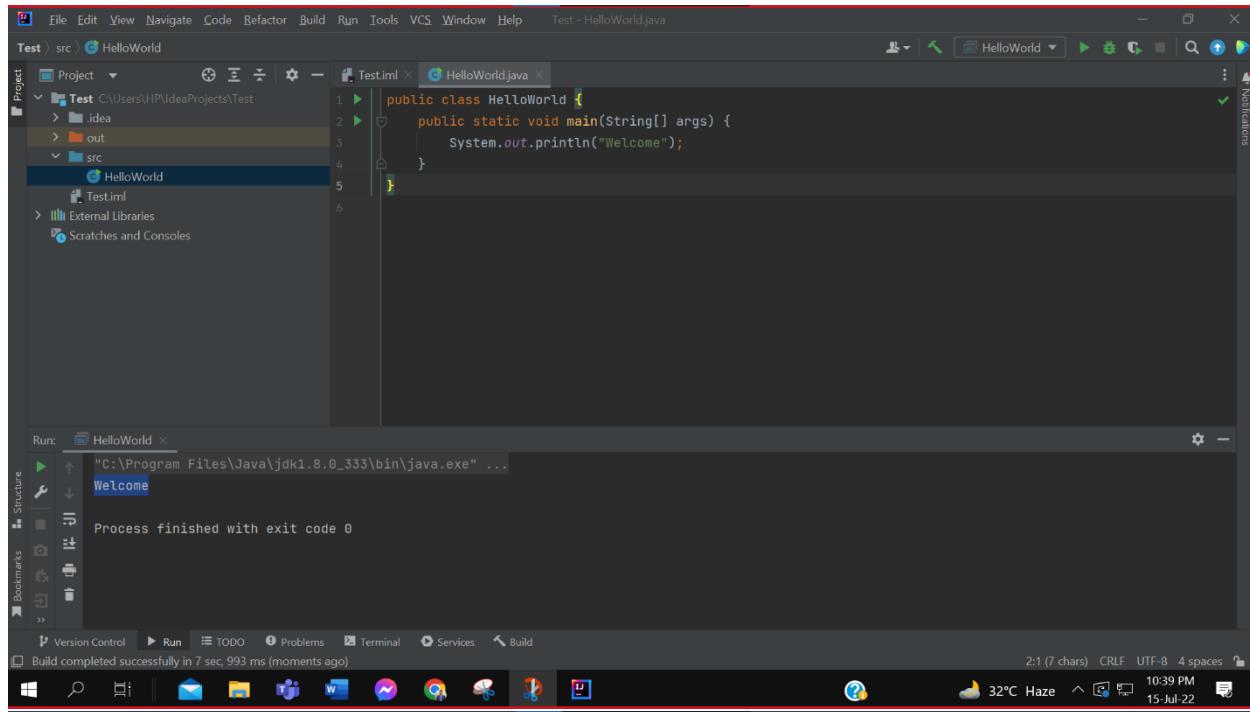
Third-party software used by IntelliJ IDEA Community Edition

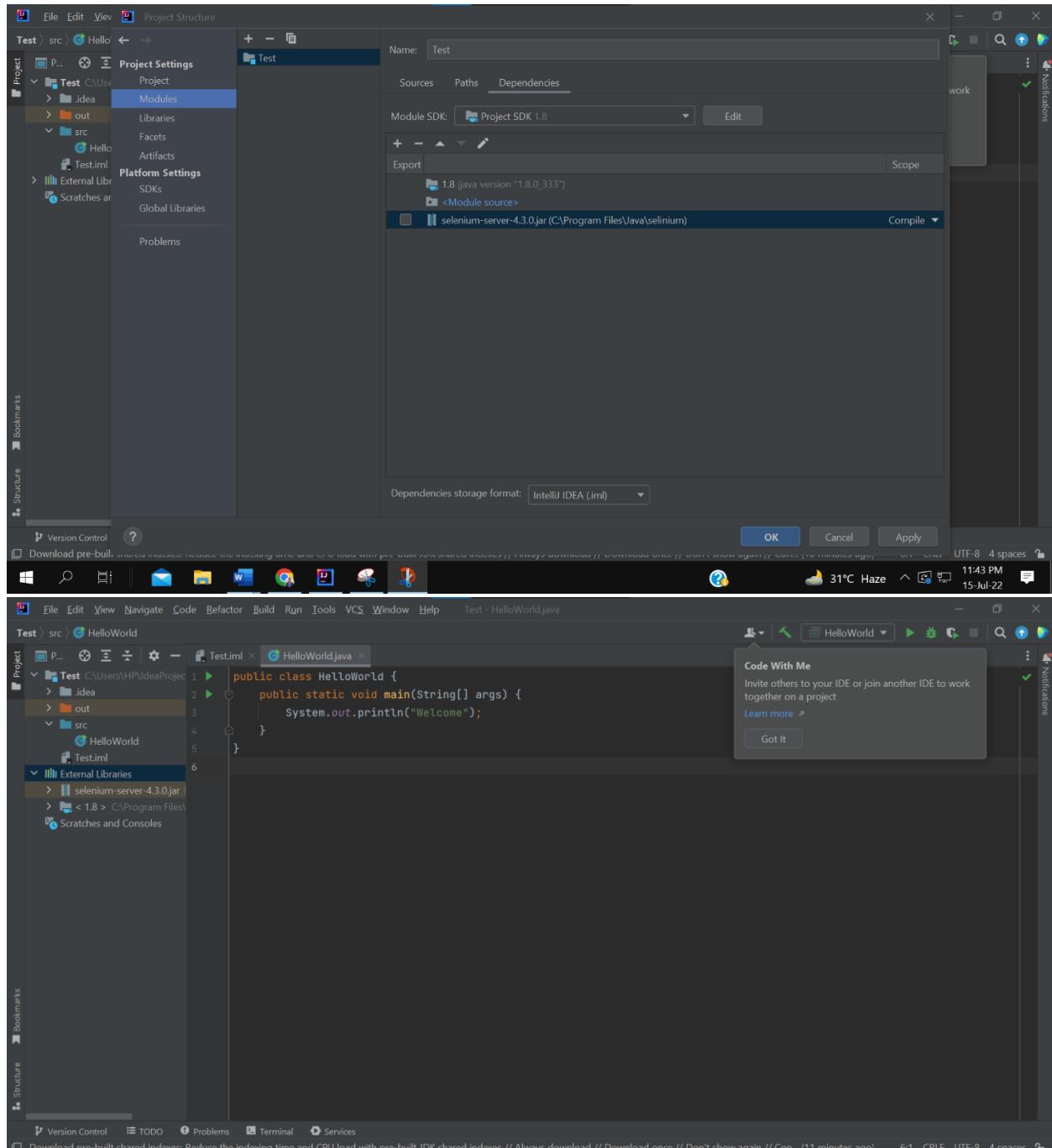




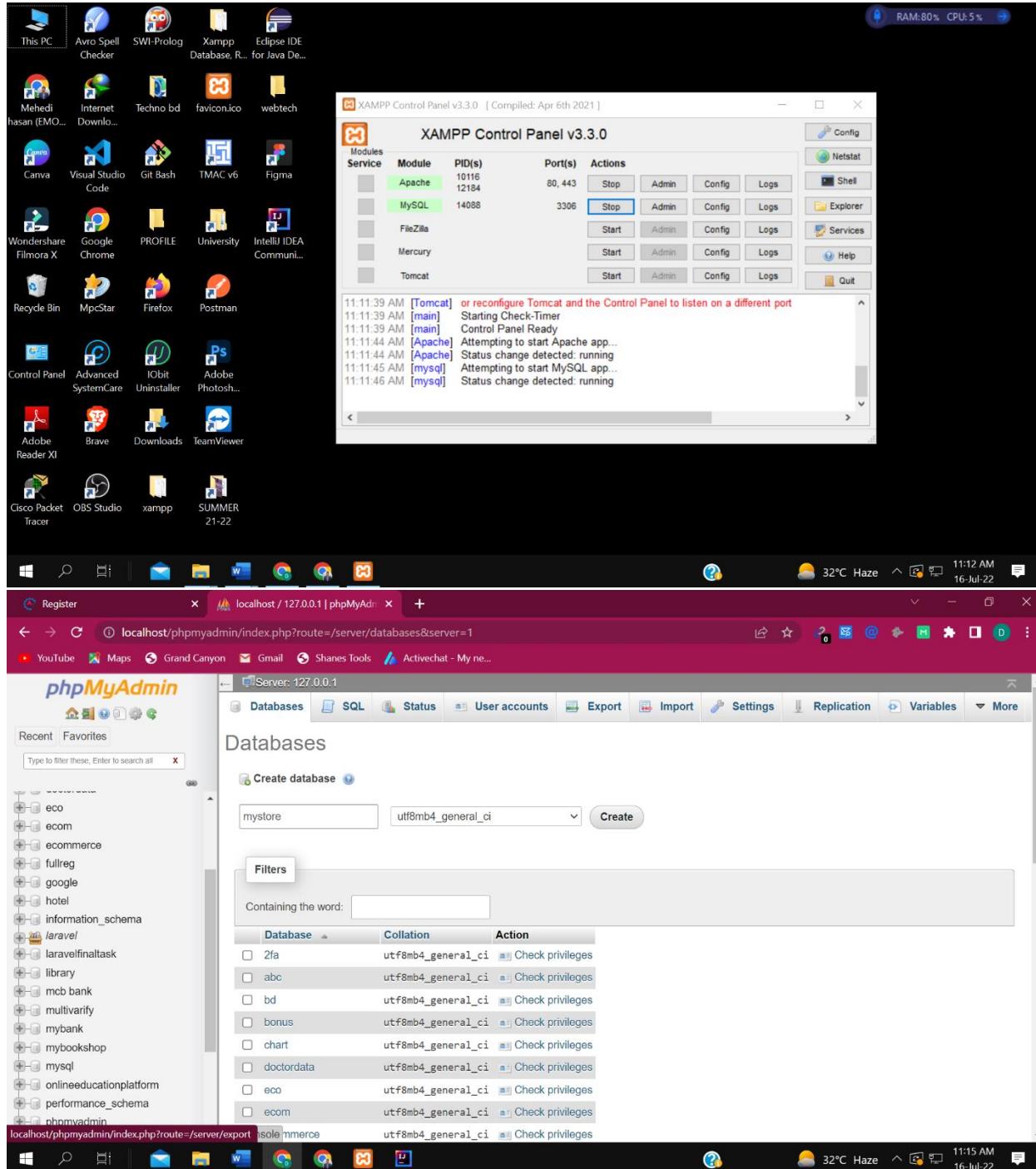


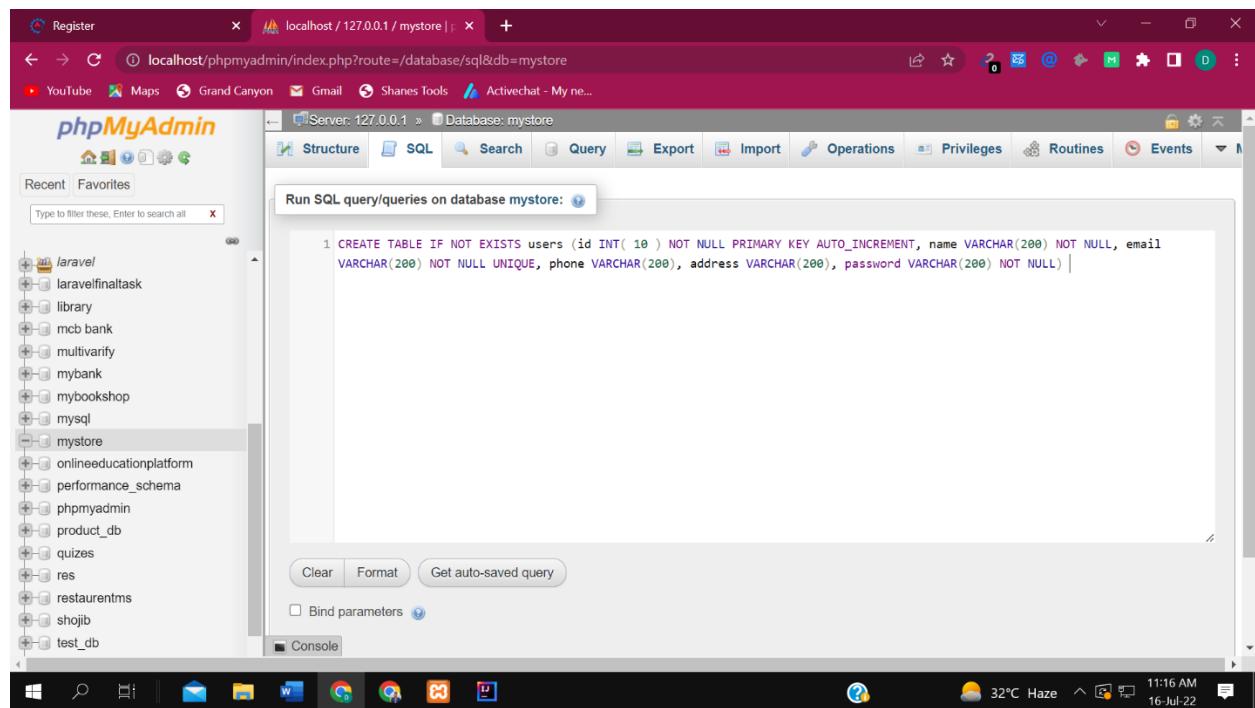


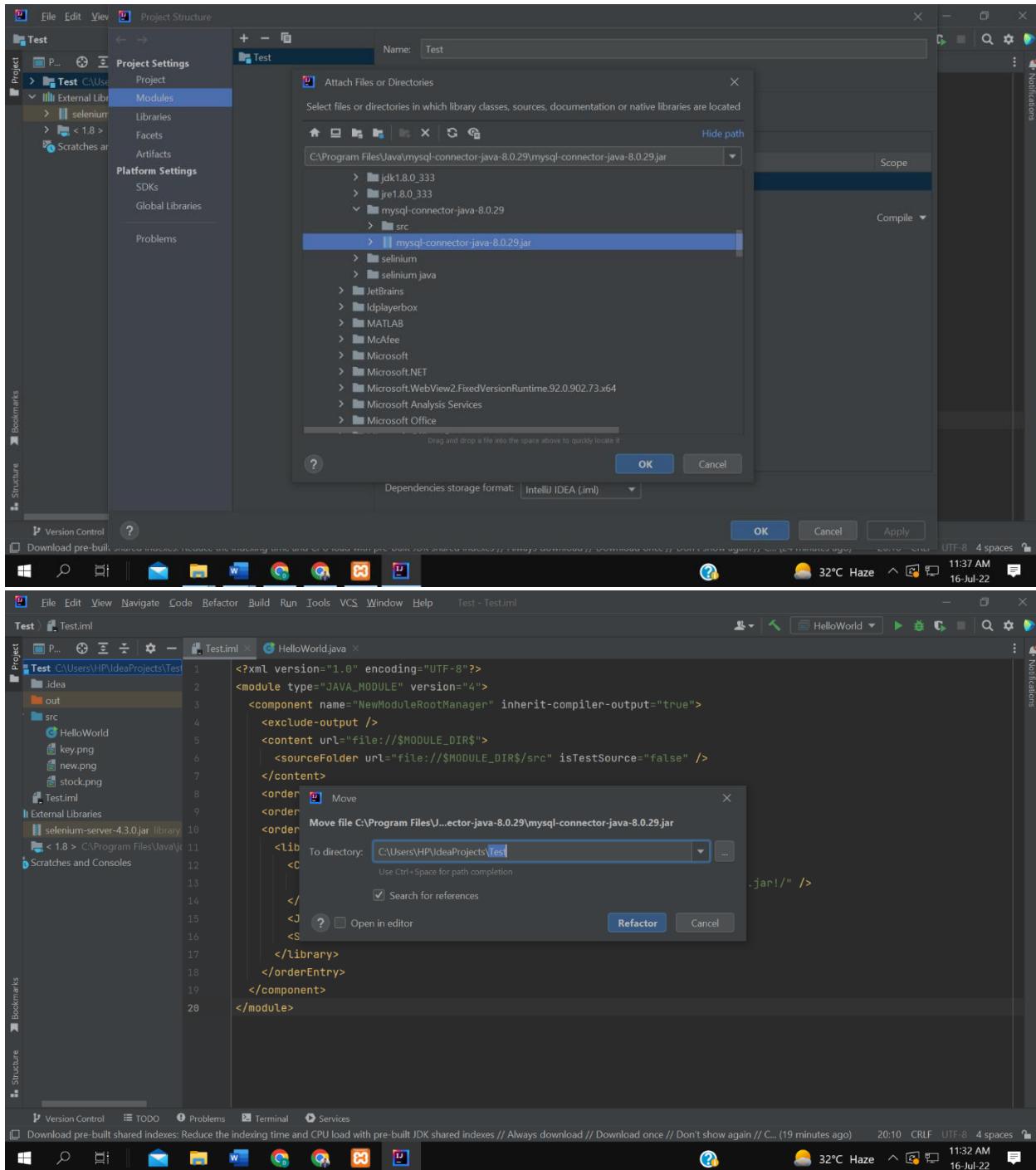


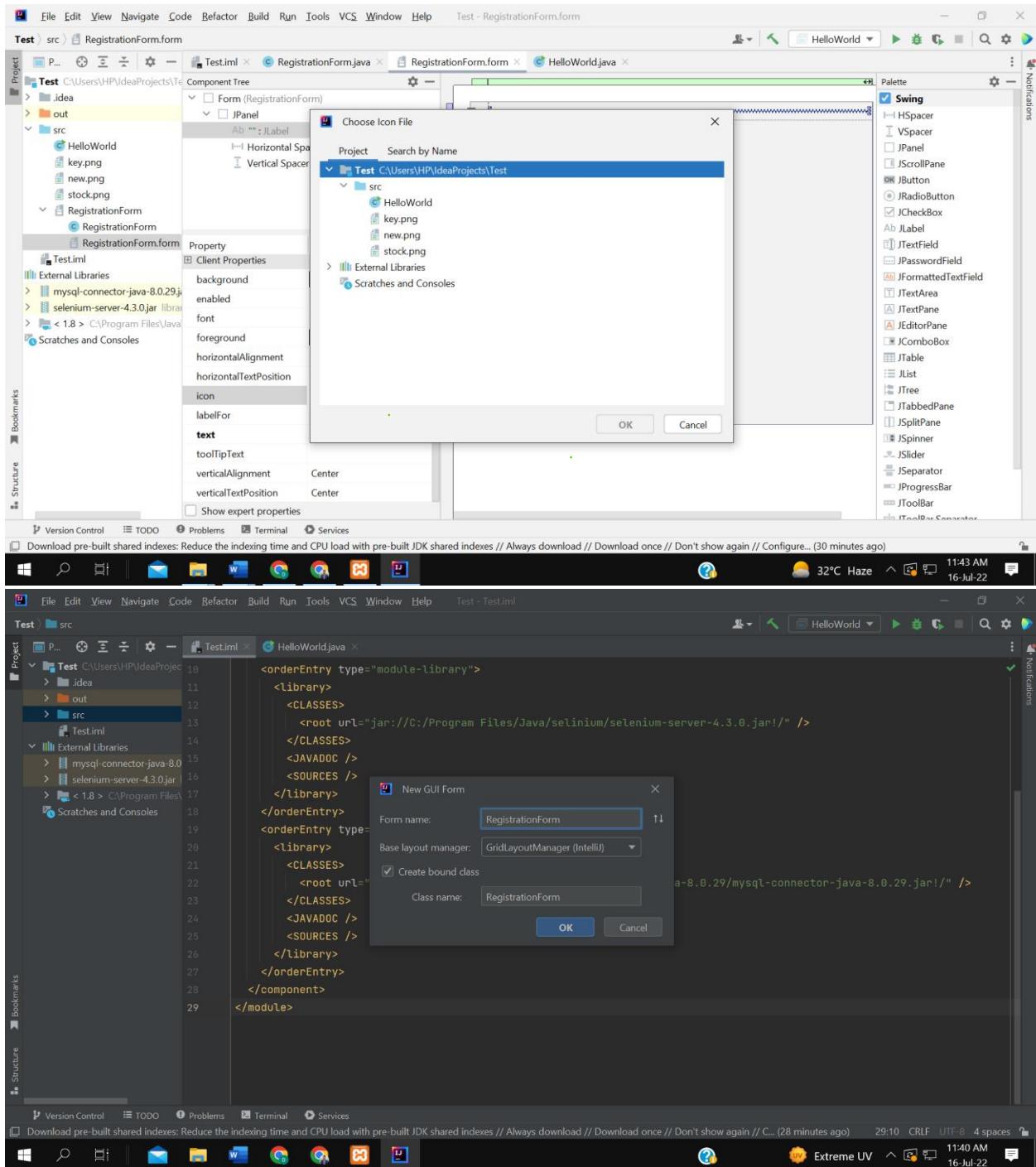


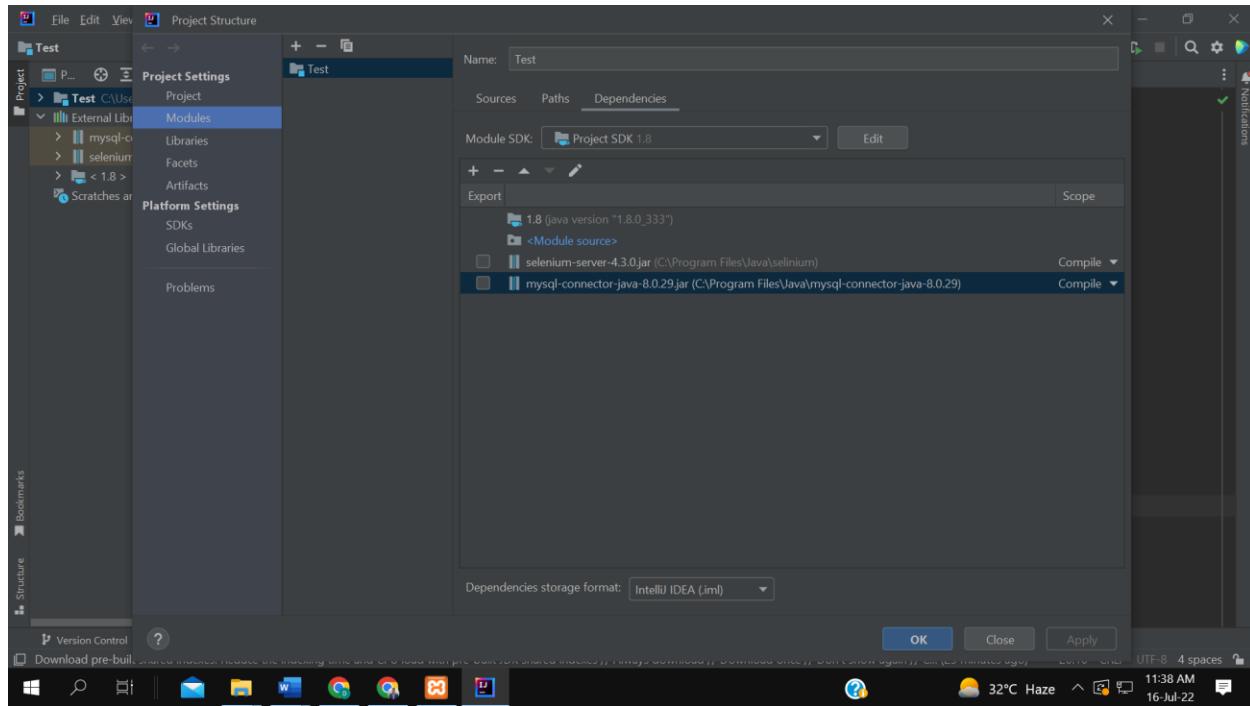
JAVA, MY SQL DATABASE PROJECT CREATION AND TESTING WITH INTELLIJ IDEA



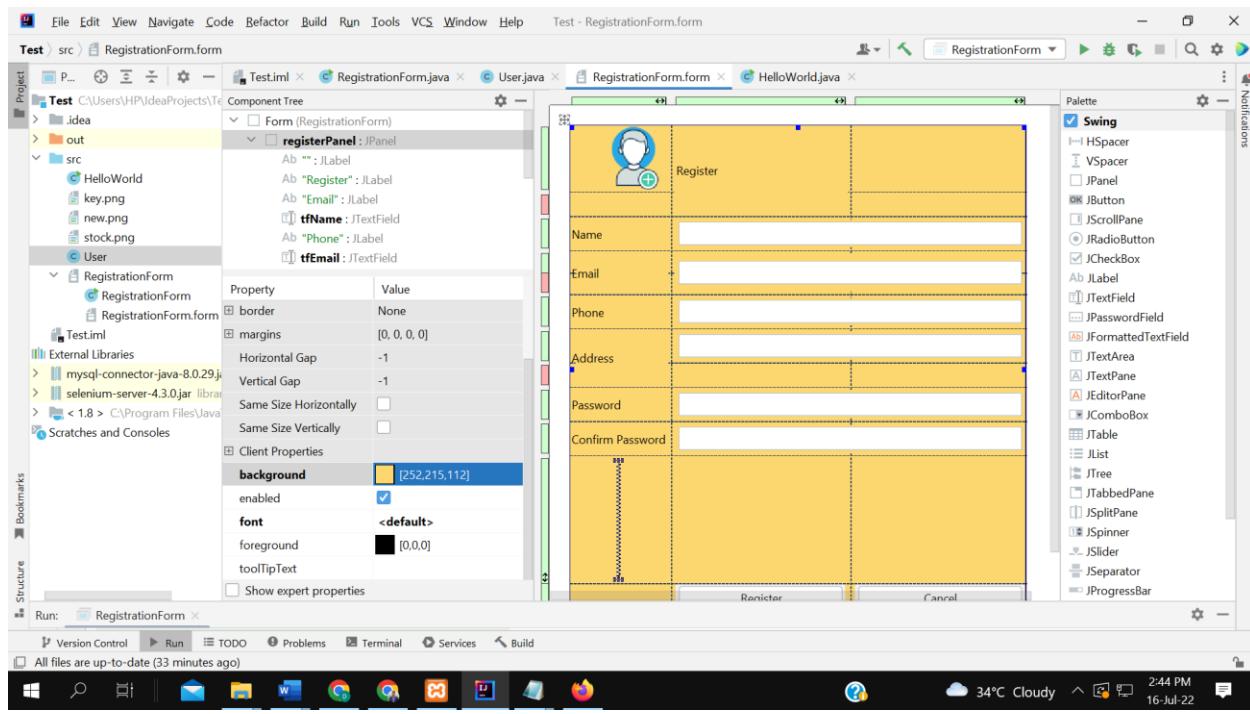




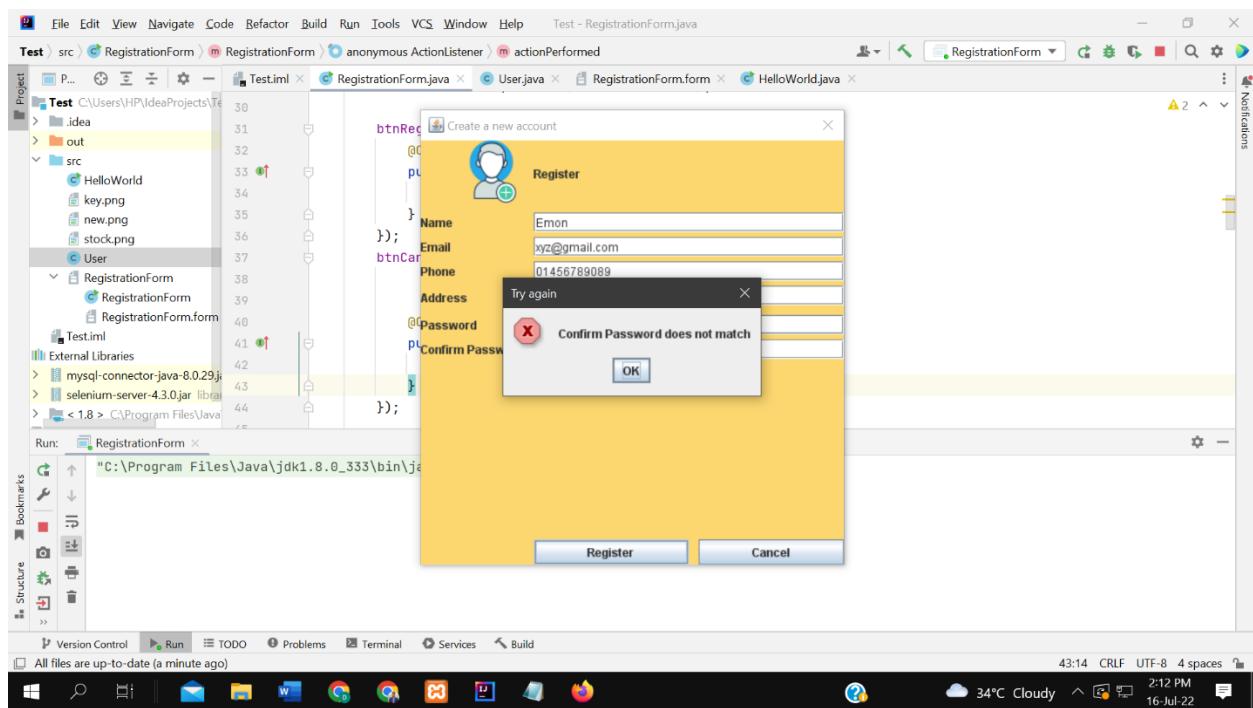




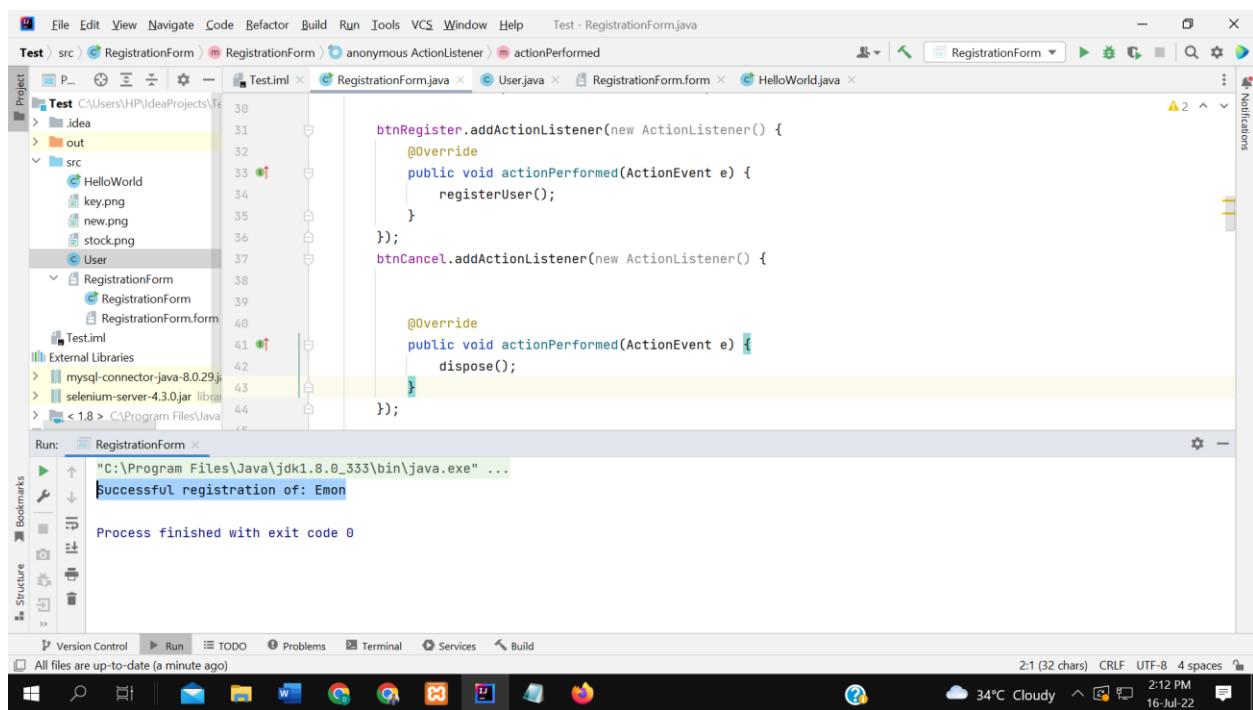
REGISTRATION FORM:



FORM VALIDATION:



TESTING RESULT:



DATABASE CHECKING:

The screenshot shows the phpMyAdmin interface connected to a MySQL server at 127.0.0.1. The database selected is 'mystore' and the table is 'users'. A single row is displayed in the results table:

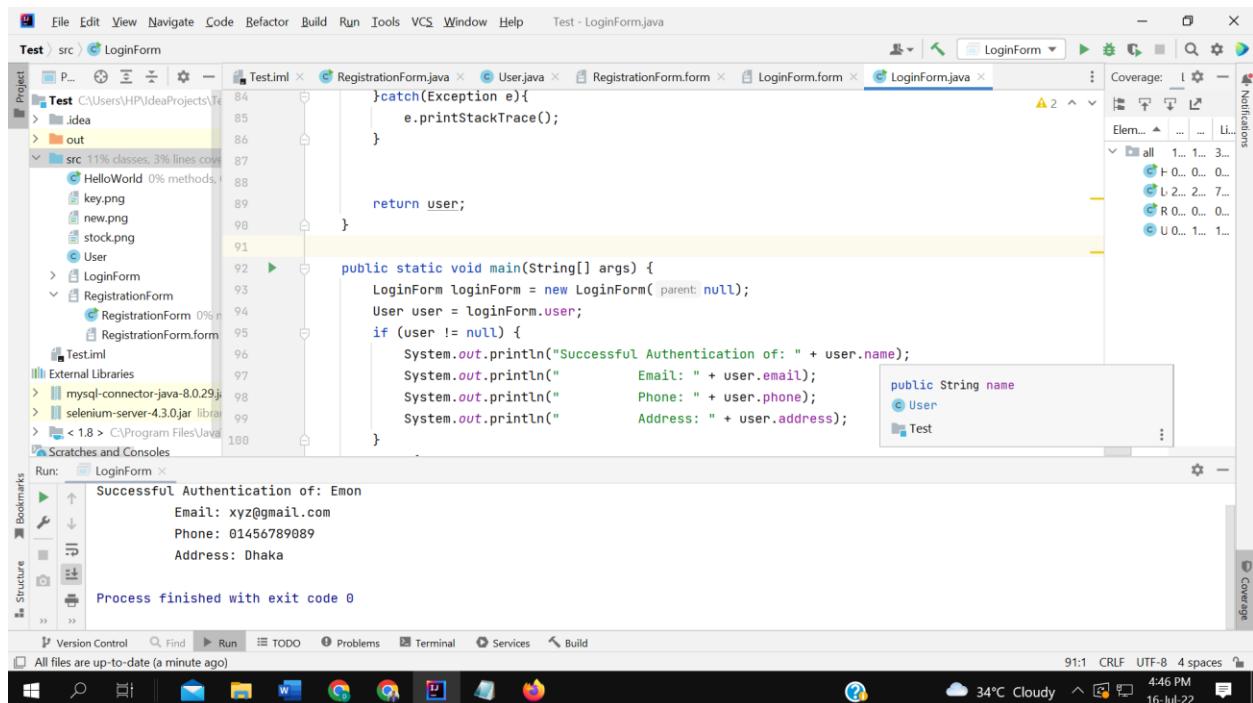
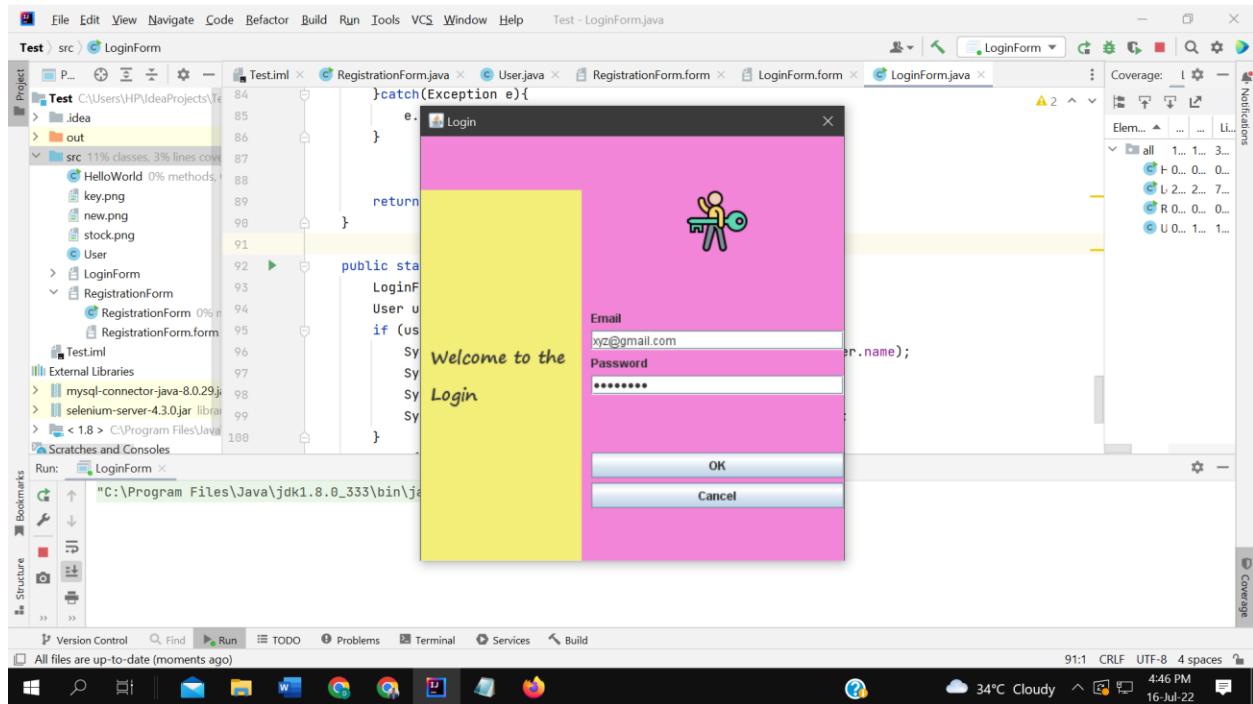
	id	name	email	phone	address	password
	1	Emon	xyz@gmail.com	01456789089	Dhaka	12345678

Below the results, there are several operation buttons: Edit, Copy, Delete, and Export.

LOG IN TEST USING SAME INFO

The screenshot shows the IntelliJ IDEA interface with a Java project named 'Test'. The 'LoginForm' class is open in the editor, showing Java code for a login form. A screenshot of the 'LoginForm' window is overlaid on the code, displaying a pink and yellow design with fields for 'Email' and 'Password' and buttons for 'OK' and 'Cancel'. The code includes logic for handling user input and displaying messages like 'Welcome to the Login'.

On the right side of the screen, a video call interface from Microsoft Teams is visible, titled 'Call with SQAT project group'. It shows a list of participants: MEHEDI HASAN EMON (Organizer), RIFAT AHMED, TANJIM MAHMUD RAKIN, and KAZI AHSANUL HAQUE SHOJIB.



RESULT: TEST SUCCESSFUL

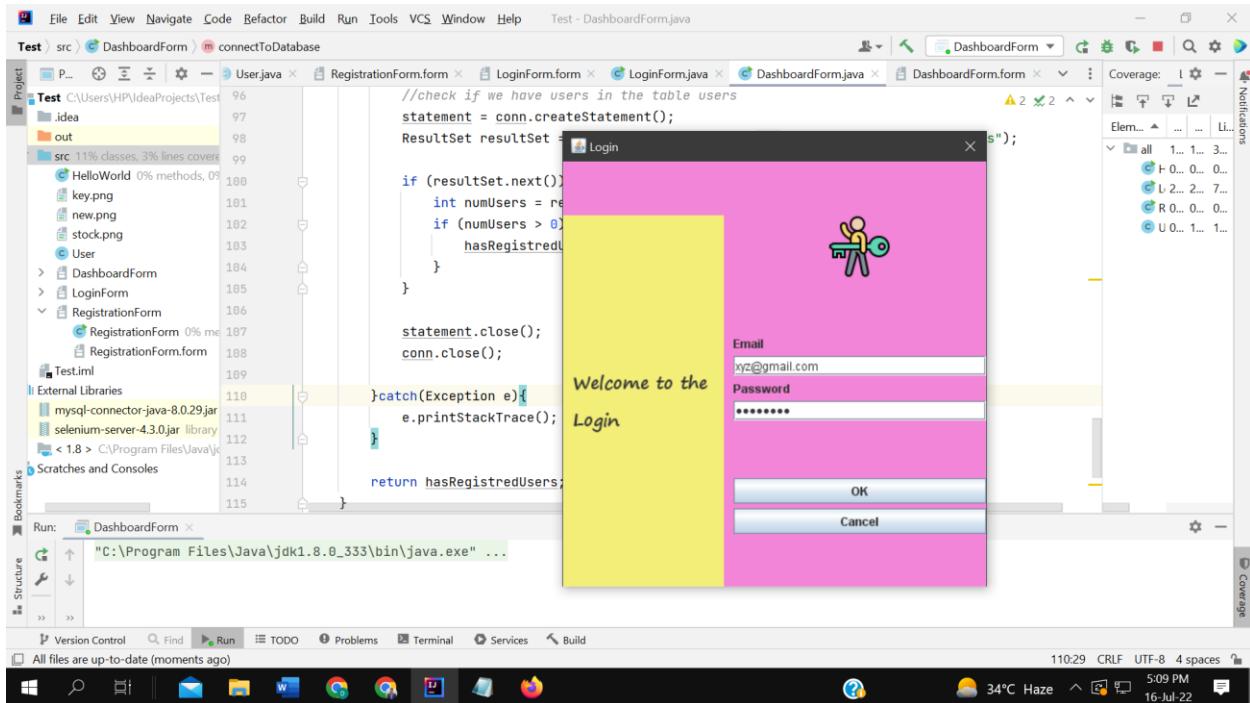
DASHBOARD:

The screenshot shows the IntelliJ IDEA interface with the 'DashboardForm.java' file open in the editor. The code is as follows:

```
105     }
106
107     statement.close();
108     conn.close();
109
110 }catch(Exception e){
111     e.printStackTrace();
112 }
113
114 return hasRegisteredUsers;
115 }
116
117 public static void main(String[] args) {
118     DashboardForm myForm = new DashboardForm();
119 }
120
121 }
```

The 'Coverage' tool window on the right shows 100% coverage for all lines of code. The 'Run' tool window at the bottom shows the process finished with exit code 0.

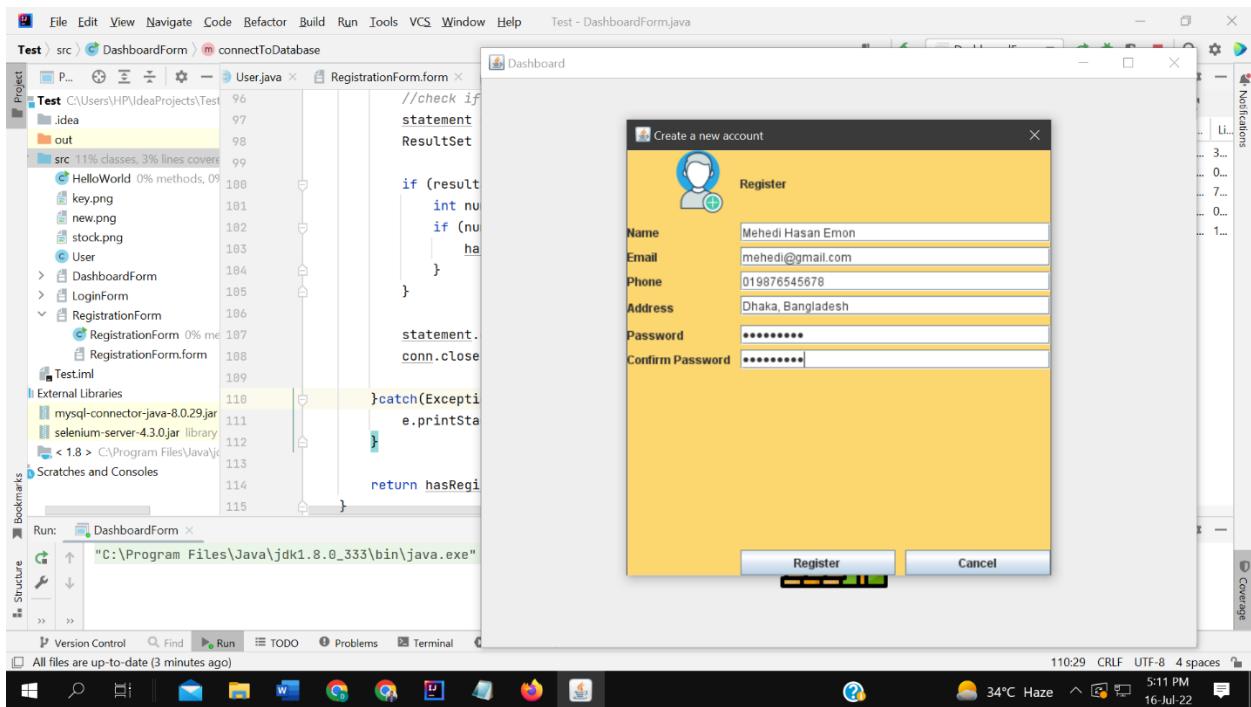
REDIRECTED TO THE DASHBOARD

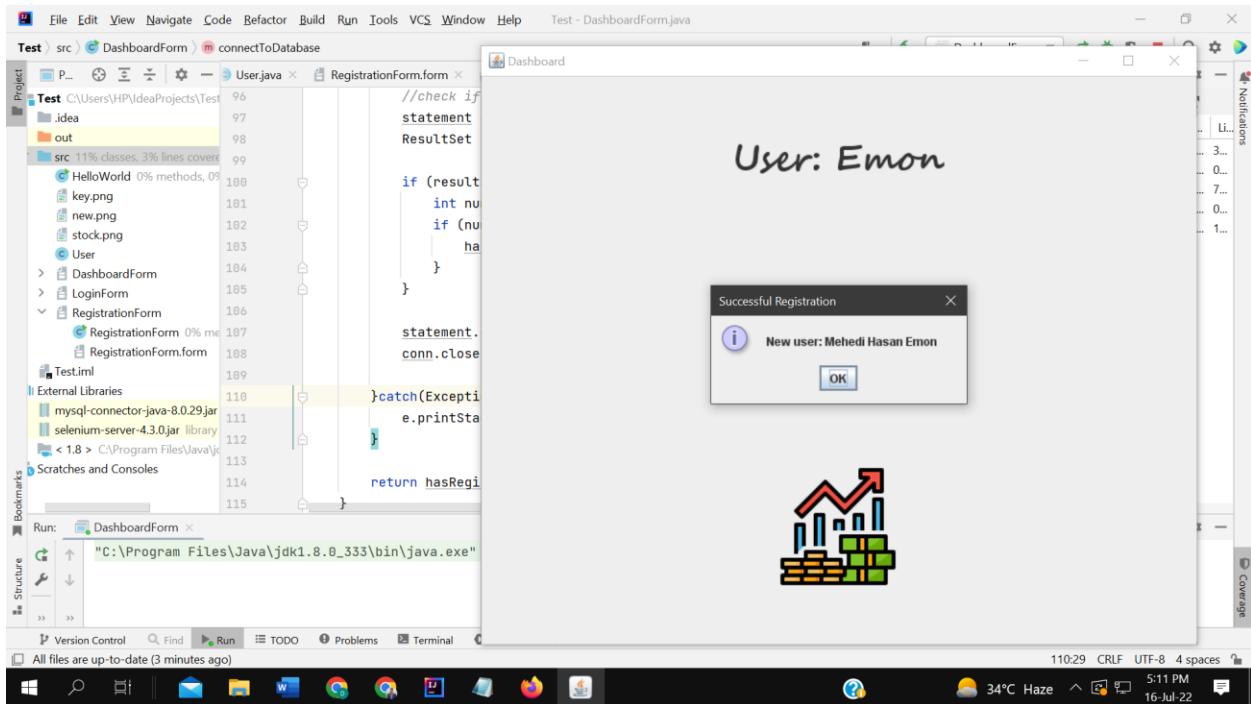


The screenshot shows the IntelliJ IDEA interface with a Java project named 'Test'. The 'DashboardForm.java' file is open, displaying code related to database connectivity. A success message 'User: Emon' is overlaid on the IDE window. The status bar at the bottom right indicates 'TEST RESULT: SUCCESSFUL'.

TEST RESULT: SUCCESSFUL

FOR NEW REGISTRATION:





DATABASE

The screenshot shows the phpMyAdmin interface connected to a MySQL database named "mystore". The "users" table is selected, displaying the following data:

	id	name	email	phone	address	password
1	Emon	xyz@gmail.com	01456789089	Dhaka	12345678	
2	Mehedi Hasan Emon	mehedi@gmail.com	019876545678	Dhaka, Bangladesh	123456789	

