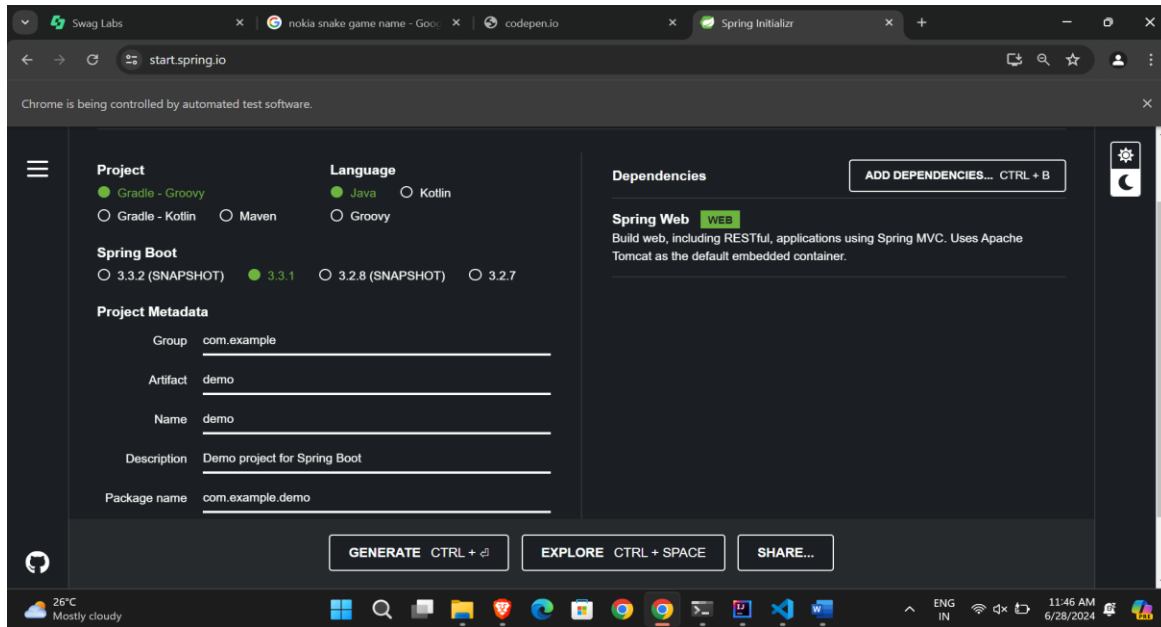
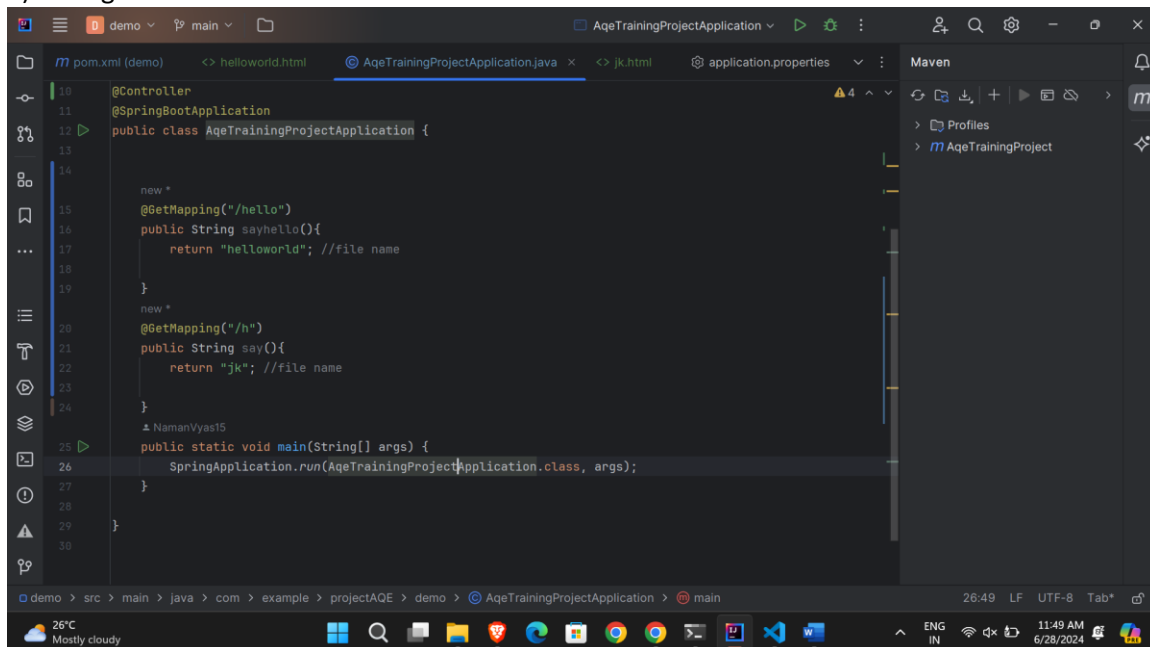


Project: Implementing a Java project, creating a docker image and pushing on docker hub and also build a ci/cd pipeline using Jenkins.

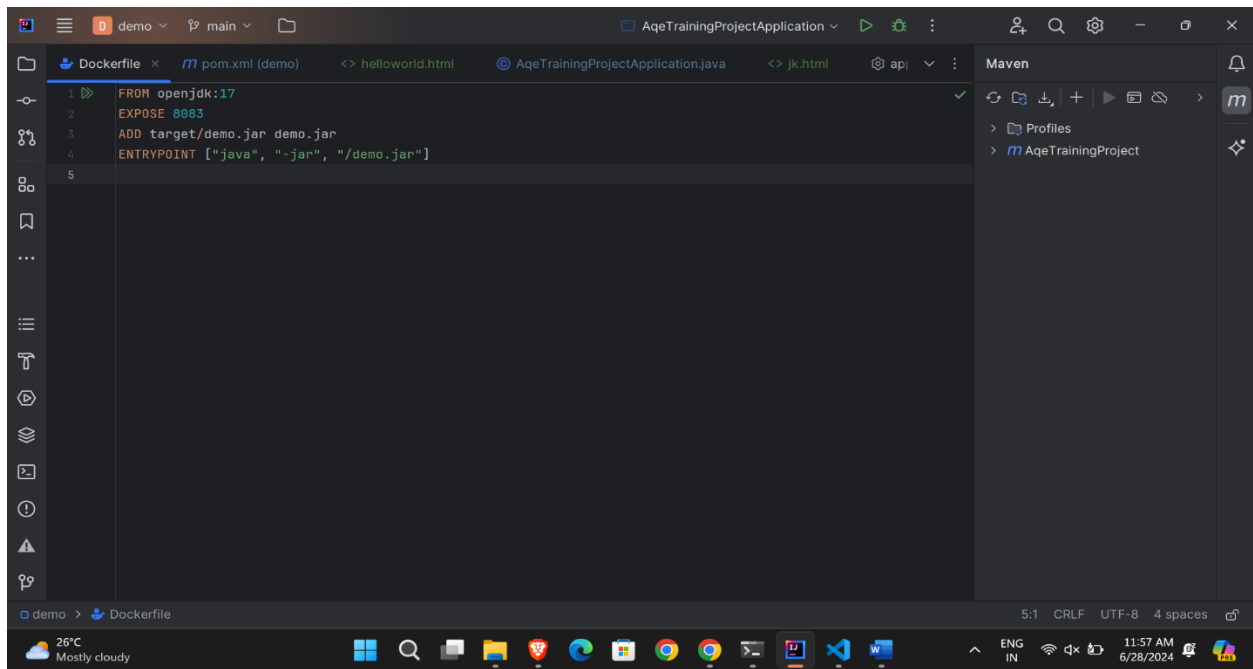
1)Building a SpringBoot project using spring initializer.



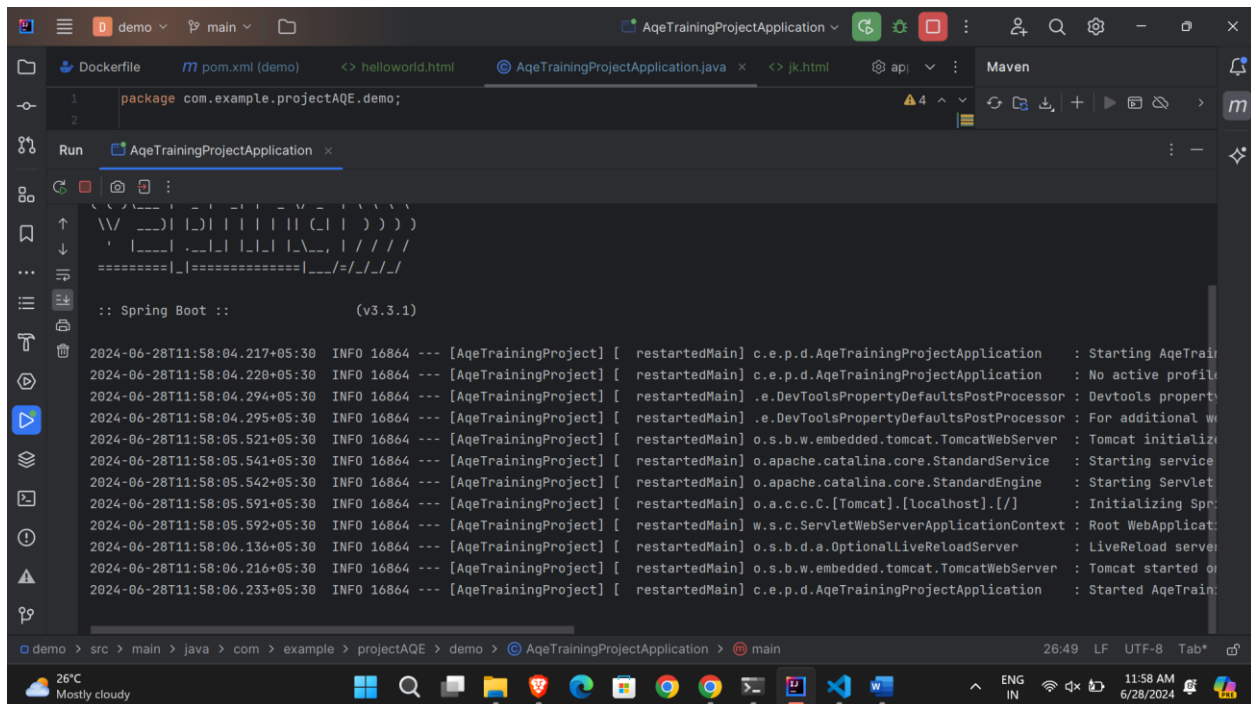
2)Adding annotation and function



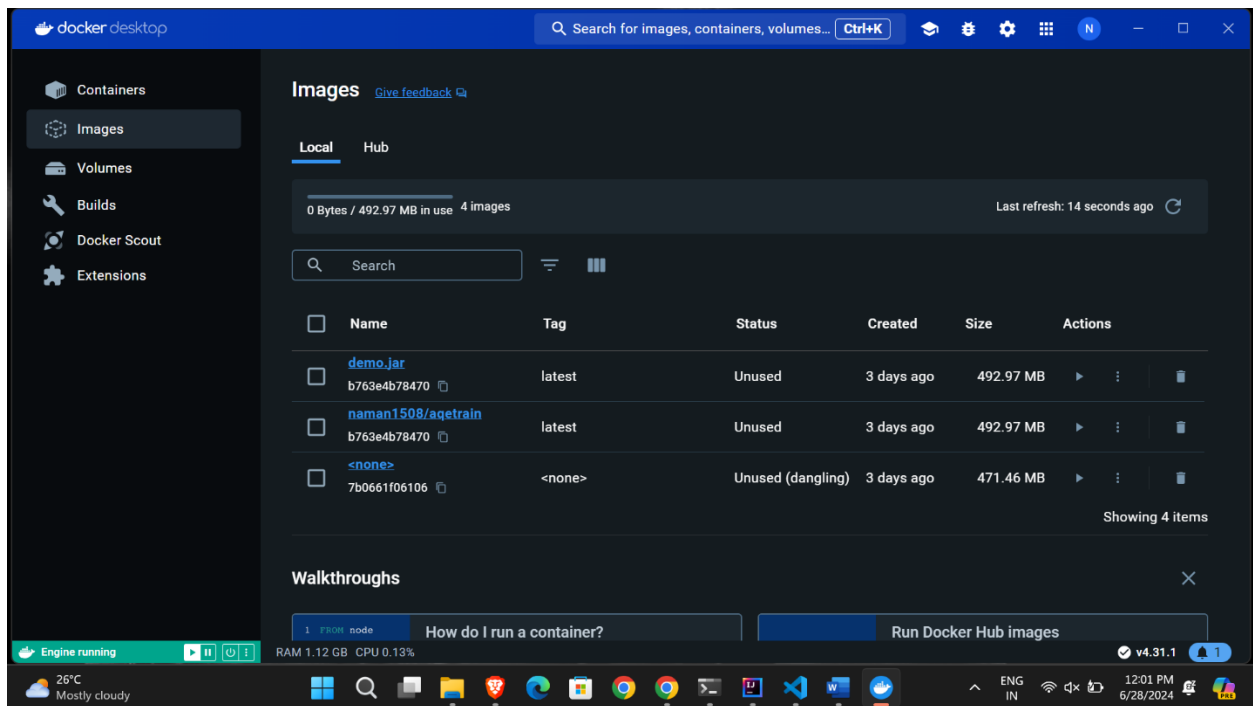
3) Building Dockerfile:



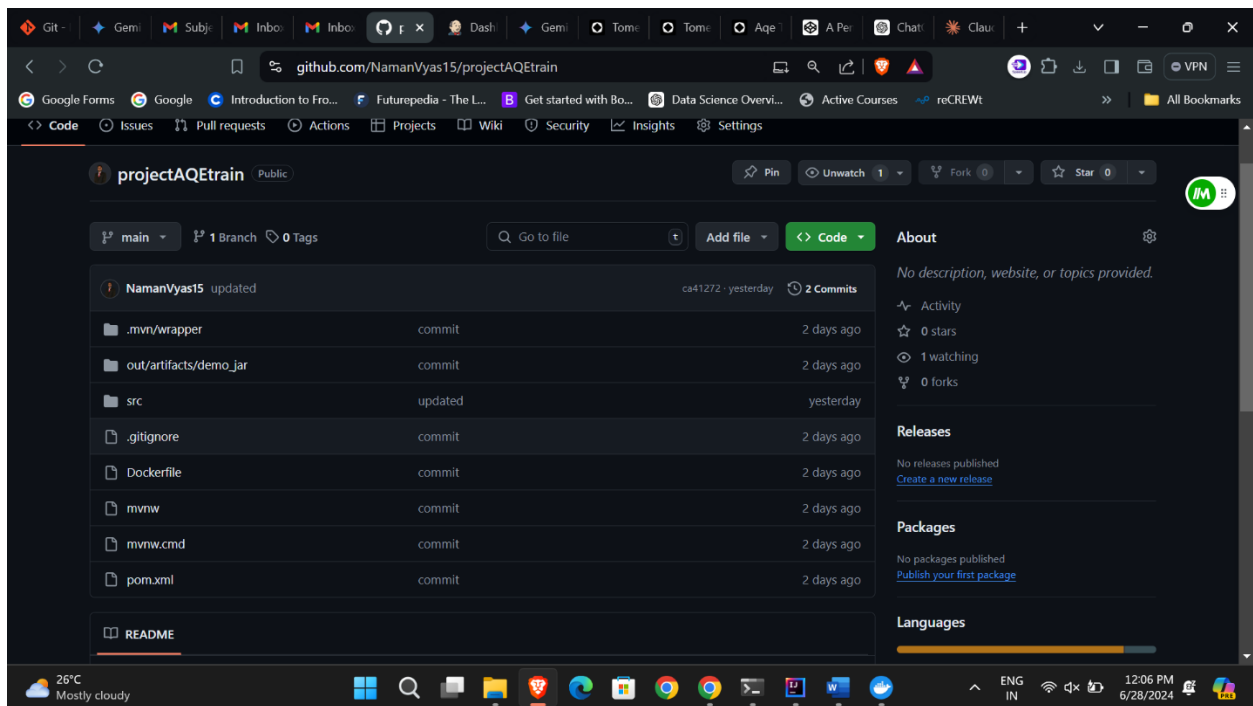
4) Executing the spring boot project:



5) Creating Repository and adding Image on DockerHub:



6) Pushing the project on Git:



7)Login into Jenkins and Adding Jenkins for CI/CD:

The screenshot shows the Jenkins Dashboard interface. On the left, there's a sidebar with links: New Item, Build History, Manage Jenkins, My Views, and Open Blue Ocean. The main area displays a table of builds. The first build is 'aqetraining2', which is successful (green checkmark), took 24 seconds, and has a last failure of 'N/A'. Below the table, there's a 'Build Queue' section showing 'No builds in the queue.' and a 'Build Executor Status' section showing '(0 of 2 executors busy)'. The bottom of the dashboard shows the REST API and Jenkins version 2.463.

S	W	Name ↓	Last Success	Last Failure	Last Duration	F
✓	☀	aqetraining2	24 sec #3	N/A	2.5 sec	▶ ☆

Build Queue: No builds in the queue.

Build Executor Status: (0 of 2 executors busy)

REST API Jenkins 2.463

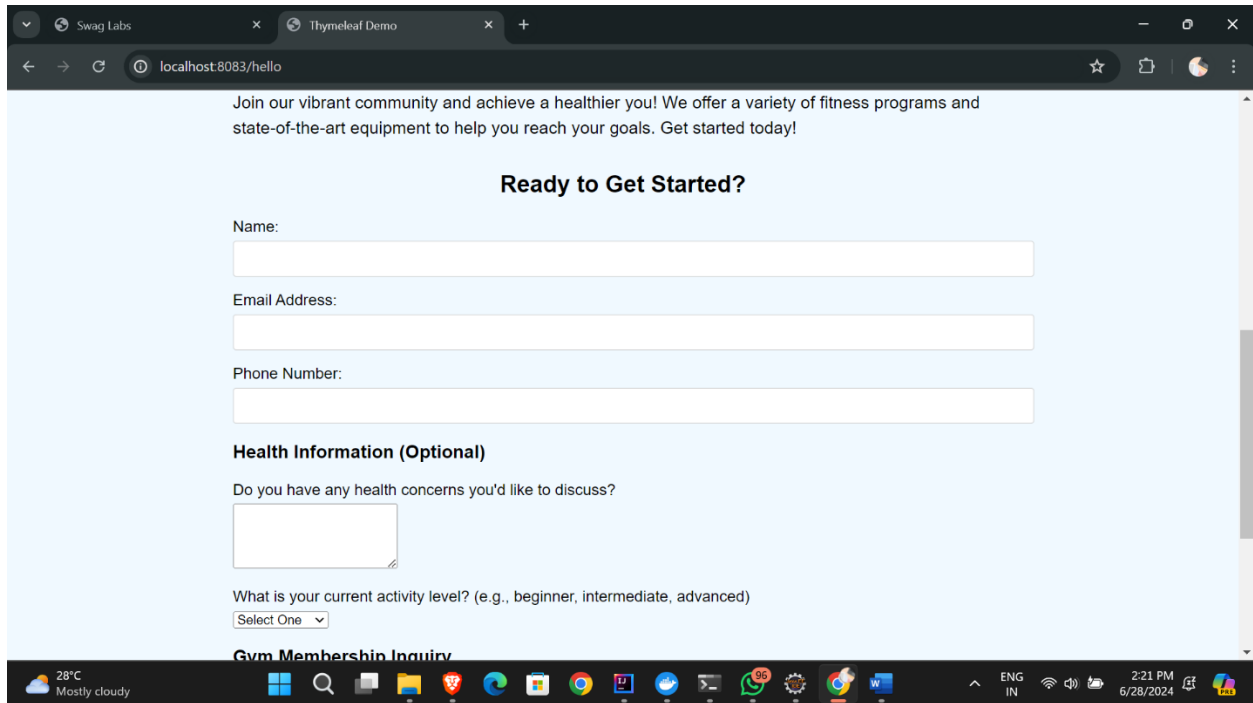
Application Screenshot:

The screenshot shows a web application running on localhost:8083/hello. The page has a blue header with the text 'Get Fit Gym' and 'Reach your fitness goals with us!'. Below the header, there's a large image of a dumbbell and several weight plates. The bottom of the page shows the system tray with the date and time: 2:20 PM 6/28/2024.

Get Fit Gym

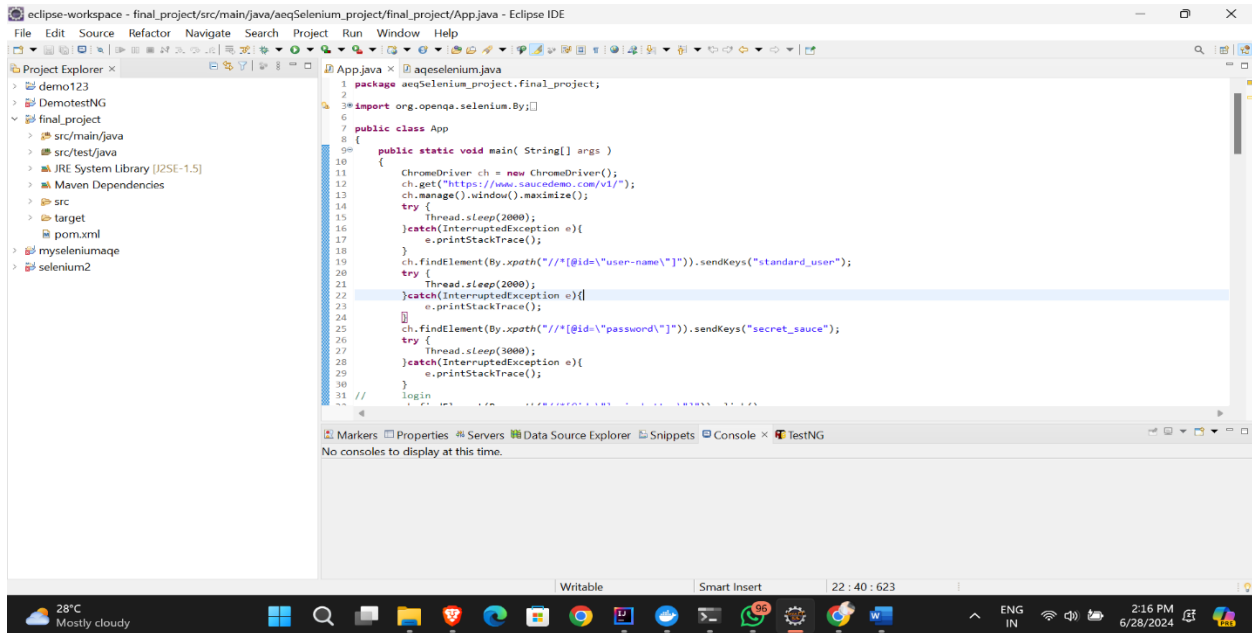
Reach your fitness goals with us!

2:20 PM 6/28/2024



Project 2: Performing selenium automation testing with java on saucedemo.com

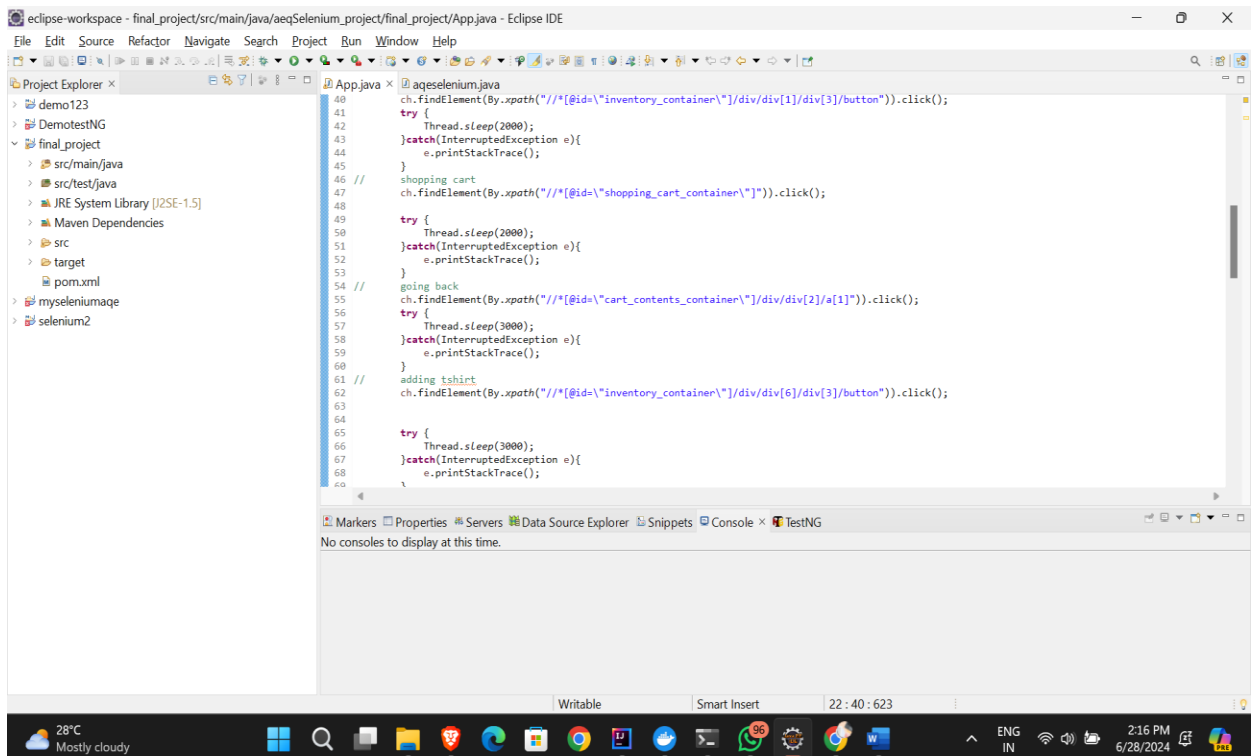
Code:



The screenshot shows the Eclipse IDE with a Java project named 'final_project'. The 'Project Explorer' on the left shows the project structure. The main editor displays the file 'App.java' with the following code:

```
1 package aeqSelenium_project.final_project;
2
3 import org.openqa.selenium.By;
4
5
6
7 public class App
8 {
9     public static void main( String[] args )
10     {
11         ChromeDriver ch = new ChromeDriver();
12         ch.get("https://www.saucedemo.com/v1/");
13         ch.manage().window().maximize();
14         try {
15             Thread.sleep(2000);
16         } catch (InterruptedException e) {
17             e.printStackTrace();
18         }
19         ch.findElement(By.xpath("//*[@id=\"user-name\"]")).sendKeys("standard_user");
20         try {
21             Thread.sleep(2000);
22         } catch (InterruptedException e) {
23             e.printStackTrace();
24         }
25         ch.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("secret_sauce");
26         try {
27             Thread.sleep(3000);
28         } catch (InterruptedException e) {
29             e.printStackTrace();
30         }
31         // login
32     }
33 }
```

The bottom of the IDE shows the 'Markers' and 'TestNG' tabs, indicating no consoles are currently displaying output.



The screenshot shows the Eclipse IDE with the same Java project. The main editor displays the file 'App.java' with the following code:

```
40 ch.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[1]/div[3]/button")).click();
41 try {
42     Thread.sleep(2000);
43 } catch (InterruptedException e) {
44     e.printStackTrace();
45 }
46 // shopping cart
47 ch.findElement(By.xpath("//*[@id=\"shopping_cart_container\"]")).click();
48
49 try {
50     Thread.sleep(2000);
51 } catch (InterruptedException e) {
52     e.printStackTrace();
53 }
54 // going back
55 ch.findElement(By.xpath("//*[@id=\"cart_contents_container\"]/div/div[2]/a[1]")).click();
56 try {
57     Thread.sleep(3000);
58 } catch (InterruptedException e) {
59     e.printStackTrace();
60 }
61 // adding to cart
62 ch.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[6]/div[3]/button")).click();
63
64
65
66 try {
67     Thread.sleep(3000);
68 } catch (InterruptedException e) {
69     e.printStackTrace();
70 }
```

The bottom of the IDE shows the 'Markers' and 'TestNG' tabs, indicating no consoles are currently displaying output.

```
eclipse-workspace - final_project/src/main/java/aeqSelenium_project/final_project/App.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer x
  demo123
  DemotestNG
  final_project
    src/main/java
    src/test/java
    JRE System Library [J2SE-1.5]
    Maven Dependencies
    src
    target
    pom.xml
  myseleniumpage
  selenium2
App.java x
  aeqselenium.java
79 // You can adjust the offset value for different scrolling distances.
80 //
81 // checking out
82 ch.findElement(By.xpath("//*[id=\"cart_contents_container\"]/div/div[2]/a[2]")).click();
83 try {
84     Thread.sleep(3000);
85 } catch (InterruptedException e) {
86     e.printStackTrace();
87 }
88 //adding name
89 ch.findElement(By.xpath("//*[id=\"first-name\"]")).sendKeys("aryan");
90 try {
91     Thread.sleep(2000);
92 } catch (InterruptedException e) {
93     e.printStackTrace();
94 }
95 // adding surname
96 ch.findElement(By.xpath("//*[id=\"last-name\"]")).sendKeys("Srivastav");
97 try {
98     Thread.sleep(3000);
99 } catch (InterruptedException e) {
100     e.printStackTrace();
101 }
102 // adding postal code
103 ch.findElement(By.xpath("//*[id=\"postal-code\"]")).sendKeys("411001");
104 try {
105     Thread.sleep(4000);
106 } catch (InterruptedException e) {
107     e.printStackTrace();
108 }
109 // checkout
110 ch.findElement(By.xpath("//*[id=\"checkout_info_container\"]/div/form/div[2]/input")).click();
111 try {
112     Thread.sleep(4000);
113 } catch (InterruptedException e) {
114     e.printStackTrace();
115 }
116 // finish
117 ch.findElement(By.xpath("//*[id=\"checkout_summary_container\"]/div/div[2]/div[8]/a[2]")).click();
118
119
120
121
122
123
```

