

# FACEBOOK AUTOMATION

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## PROBLEM STATEMENT

Need to automate the following activities using Selenium + Java.

### Key Activities to implement:

1. Navigate to <https://www.facebook.com/>
2. Validate the login Page
3. Validate other fields login Page
4. Validate incorrect username
5. Validate incorrect password
6. Provide valid username and password. Get details of same from json file (expected\_data.json)
7. Validate that the login button is present and clickable
8. verify Forgot Password? link redirects to the password recovery page
9. Verify that clicking on the Create New Account button
10. Verify that user navigates to the signup page
11. Enter values in the First name and Surname
12. Enter values in the Mobile number field
13. Select different dates from the Date Of Birth fields
14. Validate that date,year and months are selectable
15. Verify selected DOB values should be captured accurately
16. Select each radio button option for gender
17. Validate that only one radio button option should be selectable at a time
18. Verify that clicking on the Terms link redirects to the Facebook Terms of Service page
19. Ensure that clicking on the Data Policy link redirects to the Facebook Data Policy page
20. Click on the sign up button,leave the new password as empty
21. Verify that error messages for incomplete field displayed as appropriate

## Template Code Structure: Packages and files you will be required to work upon. Other Files and packages you can ignore

Package	Class/File	Description
pages	FaceBookPage.java	<ol style="list-style-type: none"> <li>1. All core activities (mentioned in list above) to be performed here.</li> <li>2. The comments associated with each templated method here describe the expectation.</li> <li>3. You can define locators and xpath here.</li> <li>4. Declare any variable/object you need to share data/status between different methods.</li> <li>5. Do not modify the signature of methods declared here.</li> <li>6. You can create additional supportive common methods in CommonEvents class.</li> </ol>
resources	Config.json	URL to navigate to. Already URL is defined here
	expected_data.json	Contains data to fill in form
coreUtilities.utils	CommonEvents.java	<ol style="list-style-type: none"> <li>1. Contains all common activities.</li> <li>2. Certain templated common method declared here.</li> <li>3. You implement them as per your need.</li> <li>4. You can add any additional method for common activity here</li> </ol>
	FileOperations.java	<ol style="list-style-type: none"> <li>1. Contains methods to read from json file.</li> <li>2. Method is in templated form.</li> <li>3. <b>You will be required to implement these methods as very first activity, because even URL to navigate to, is read using these methods.</b></li> </ol>

## Expectations:

- 1) Learners should write automation script using Java and selenium to automate all the steps in the above question. In other words, automation script should perform all mentioned steps.
- 2) Learners should not use any tools to create the xpath. They should develop the xpath/cssselector on their own.

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## IMPLEMENTATION/FUNCTIONAL REQUIREMENT

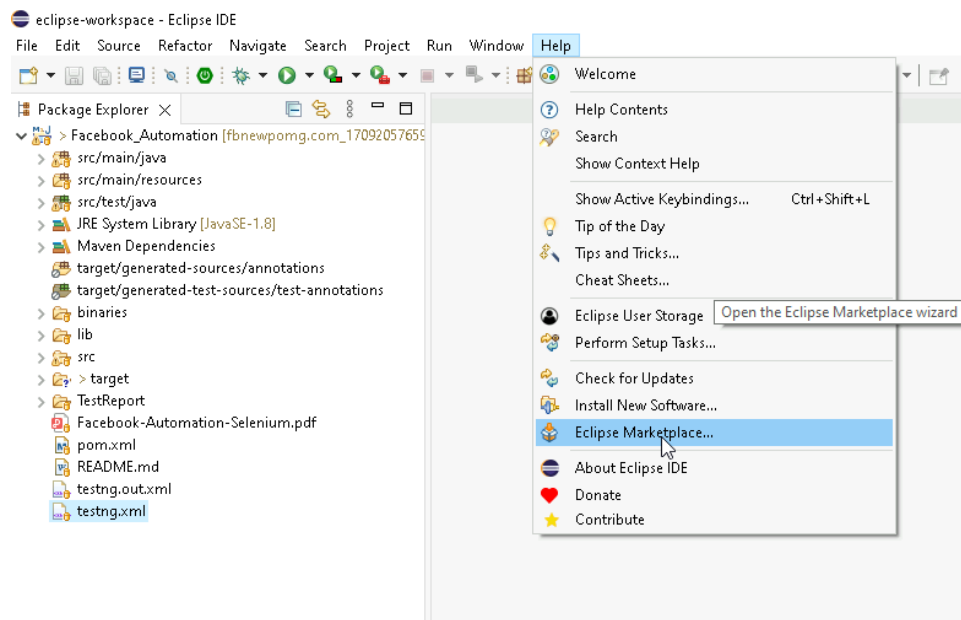
### 1.1 CODE QUALITY/OPTIMIZATIONS

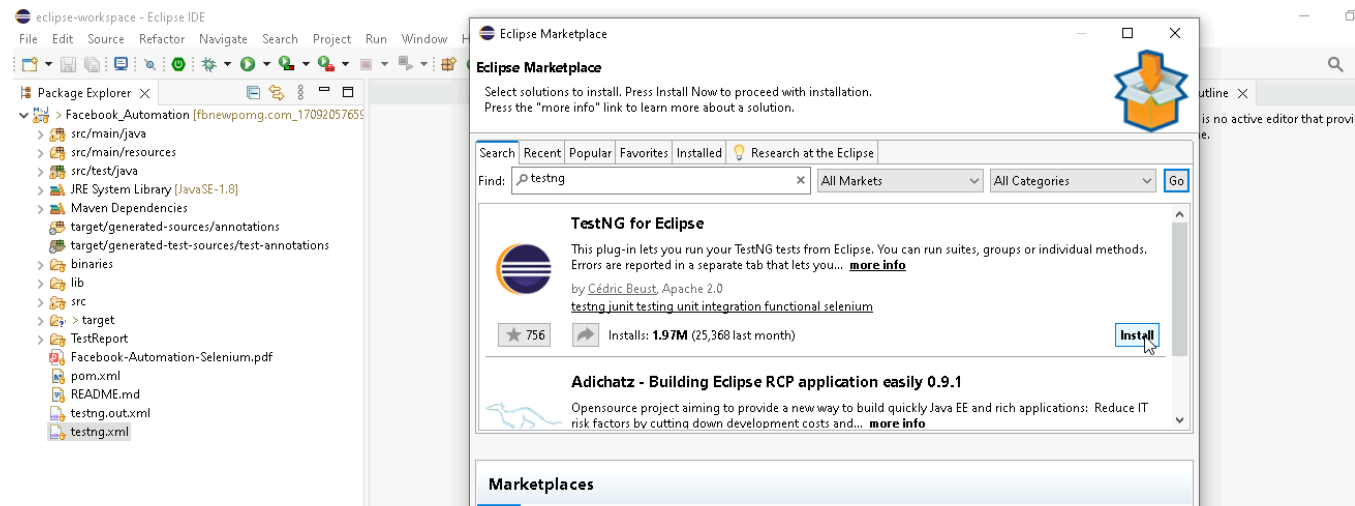
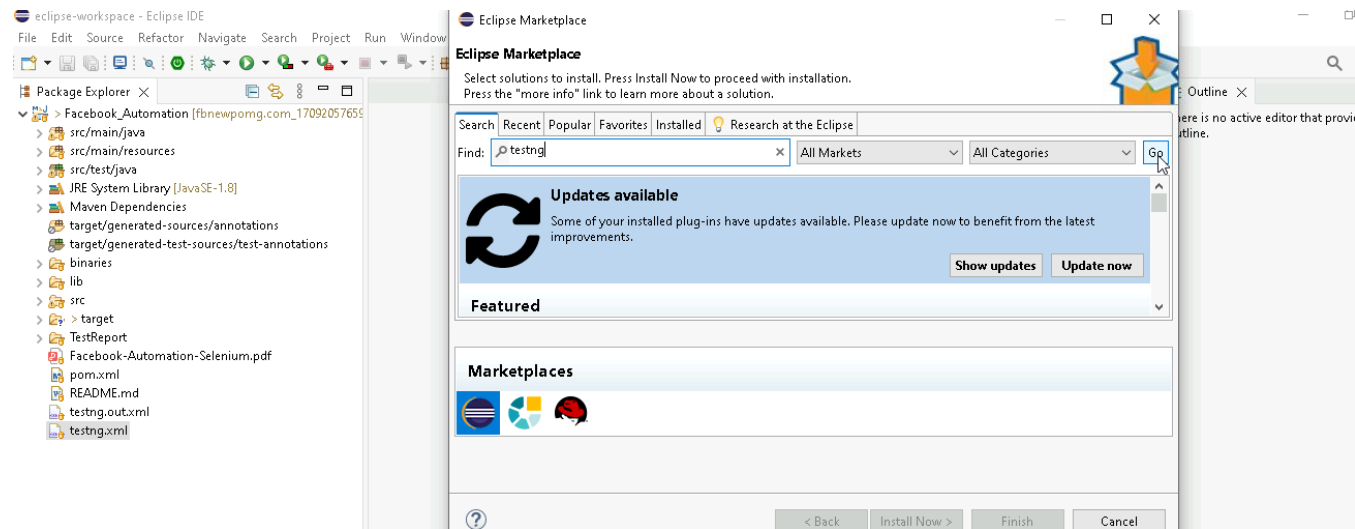
1. Associates should have written clean code that is readable.
2. Associates need to follow SOLID programming principles.

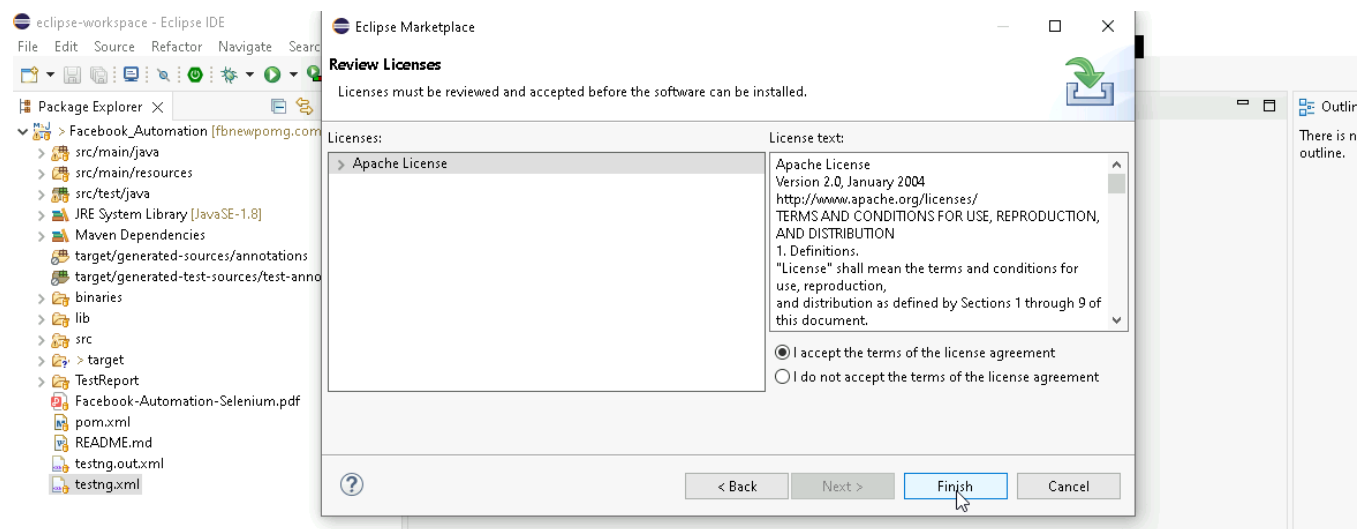
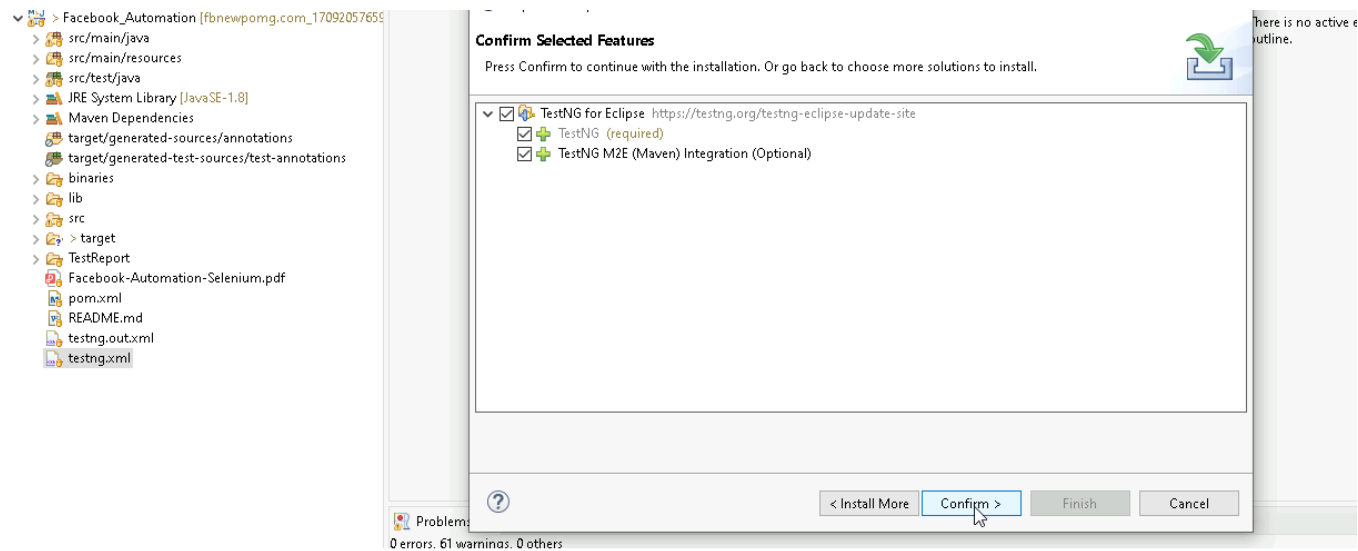
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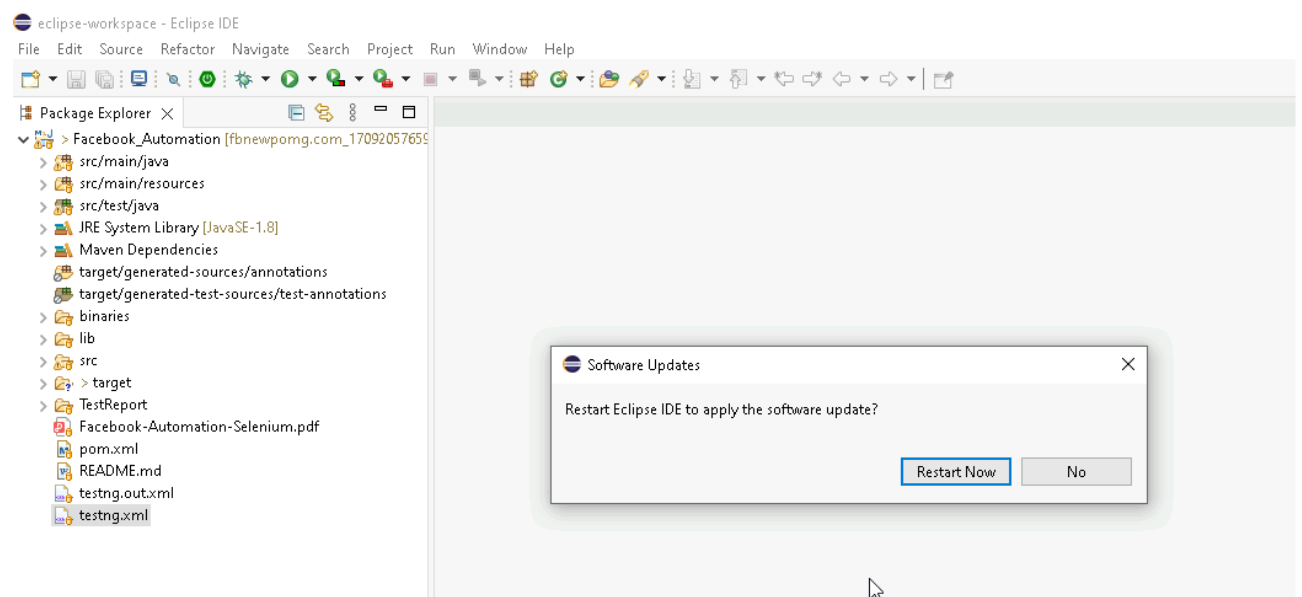
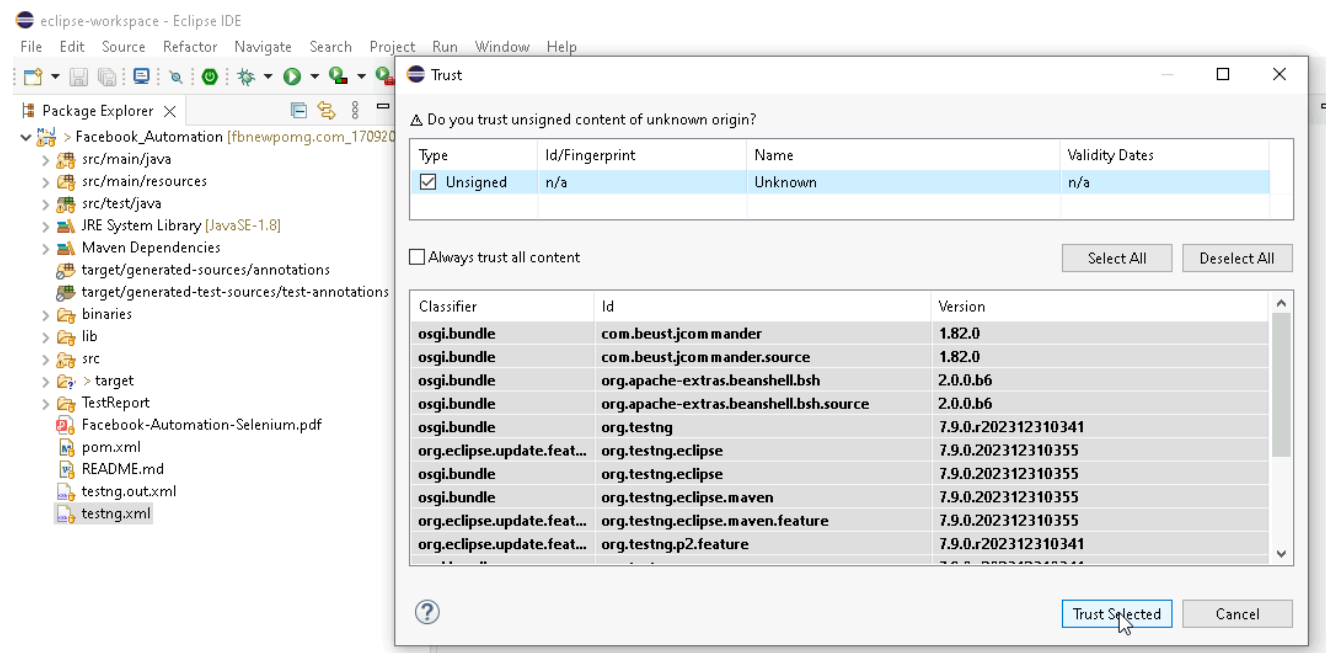
## EXECUTION STEPS TO FOLLOW

1. You are mandatory required to run test cases for applications before final submission. Without which project evaluation will not happen.
2. Following are the steps to enable test case execution:
  - a. You will need to install TestNG from eclipse marketplace. Following are the steps to follow:
  - b. Go to eclipse marketplace





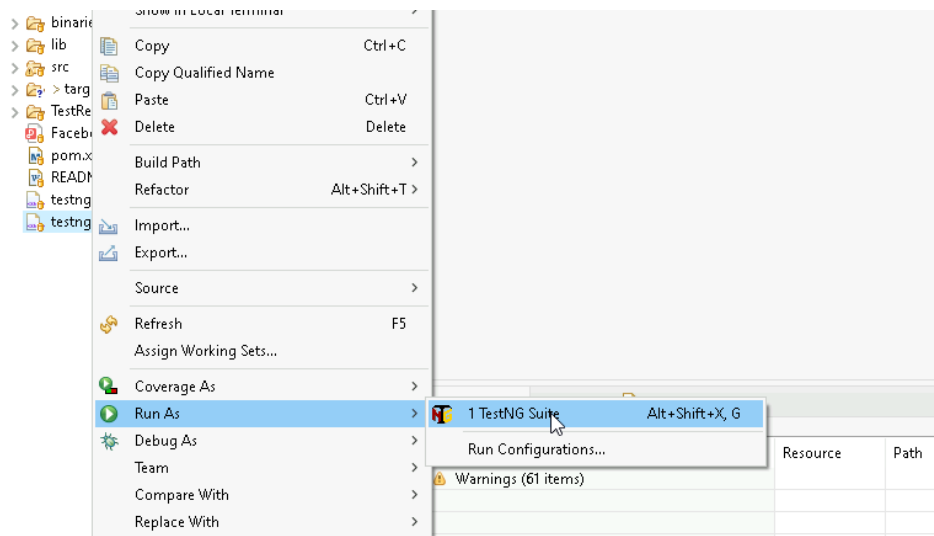




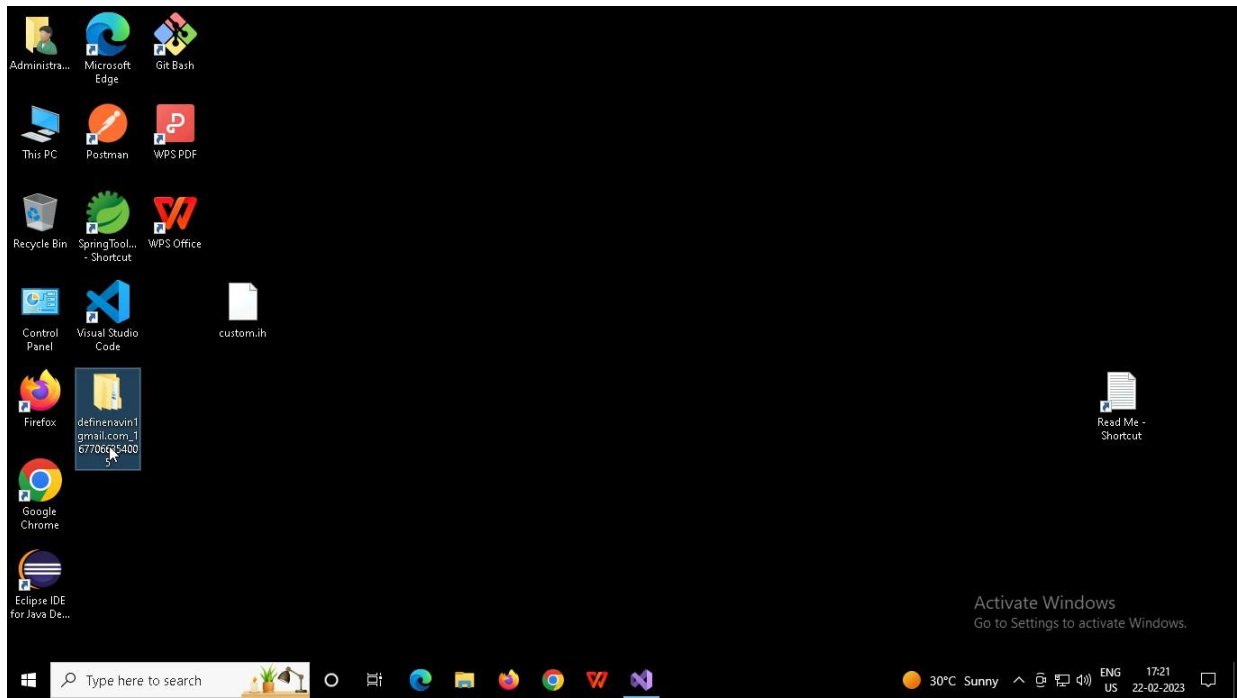
**C. All the above steps will help install TestNG plugin.**



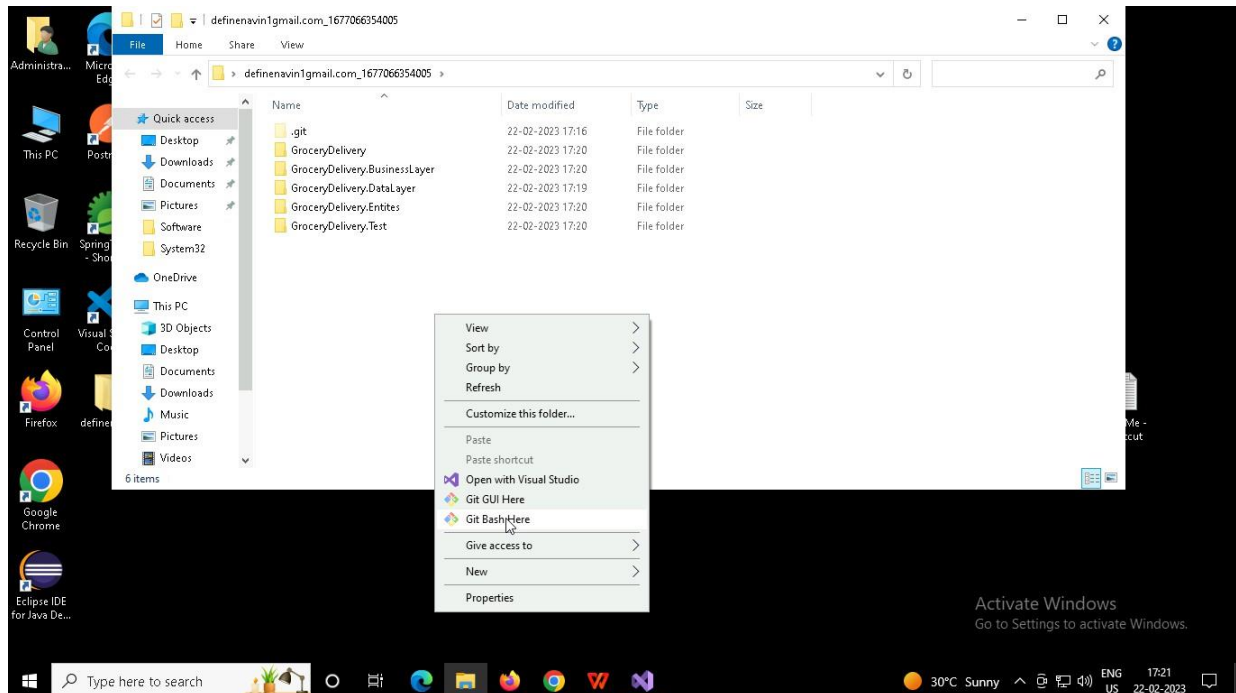
- d. Post the installation and restart of Eclipse, you can launch test cases any time as follows: Right click on testng.xml and run TestNGSuite



3. Before final submission, you are also required to push your code to GIT. Following are the steps to follow:

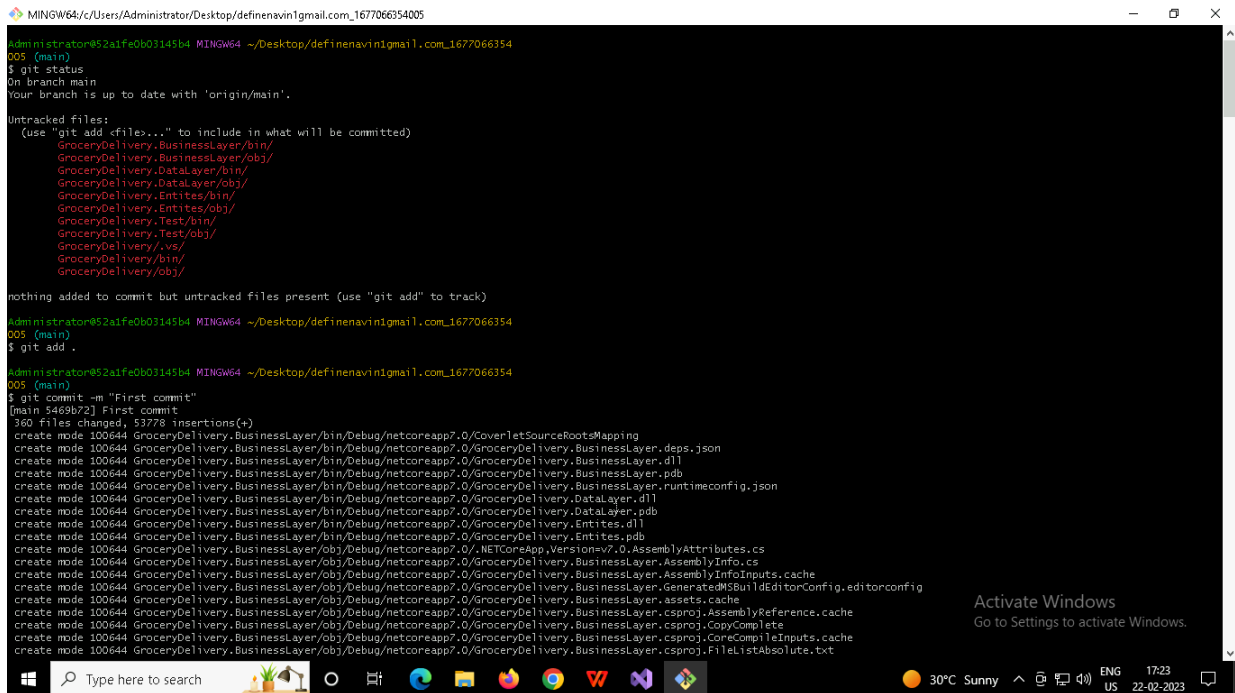


Right click in folder and open Git Bash



In Git bash terminal, run following commands

- git status
- git add .
- git commit -m "First commit"  
(You can provide any message every time you commit)
- git push



```
Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definavin@gmail.com_1677066354
005 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    GroceryDelivery.BusinessLayer/bin/
    GroceryDelivery.BusinessLayer/obj/
    GroceryDelivery.DataLayer/bin/
    GroceryDelivery.DataLayer/obj/
    GroceryDelivery.Entities/bin/
    GroceryDelivery.Entities/obj/
    GroceryDelivery.Test/bin/
    GroceryDelivery.Test/obj/
    GroceryDelivery/.vs/
    GroceryDelivery/bin/
    GroceryDelivery/obj/

nothing added to commit but untracked files present (use "git add" to track)
Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definavin@gmail.com_1677066354
005 (main)
$ git add .
Administrator@52a1fe0b03145b4 MINGW64 ~/Desktop/definavin@gmail.com_1677066354
005 (main)
$ git commit -m "First commit"
[main 5469b72] First commit
360 files changed, 53778 insertions(+)
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/CoverletSourceRootsMapping
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.deps.json
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.dll
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.pdb
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.runtimeconfig.json
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.DataLayer.dll
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.DataLayer.pdb
create mode 100644 GroceryDelivery.BusinessLayer/bin/Debug/netcoreapp7.0/GroceryDelivery.Entities.dll
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create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.AssemblyInfo.cs
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create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.assets.cache
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create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.CopyComplete
create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.CoreCompileInputs.cache
create mode 100644 GroceryDelivery.BusinessLayer/obj/Debug/netcoreapp7.0/GroceryDelivery.BusinessLayer.csproj.FileListAbsolute.txt
```

