Course-BTech Course Code- CSET205 Year-2022 Date-15/08/2022 Type- Core Course Name-Software Engineering Semester- Odd Batch- 2021-2025

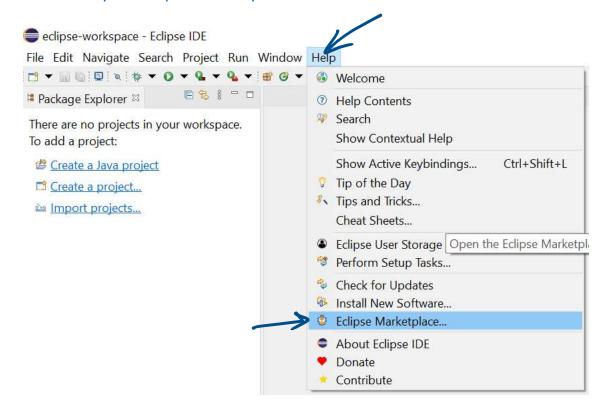
Lab Assignment No. 3 - Working with the Eclipse IDE and GitHub together CO Mapping

Exp. No.	Name	CO1	CO2	CO3
3	Working with the Eclipse			
	IDE and GitHub		•	

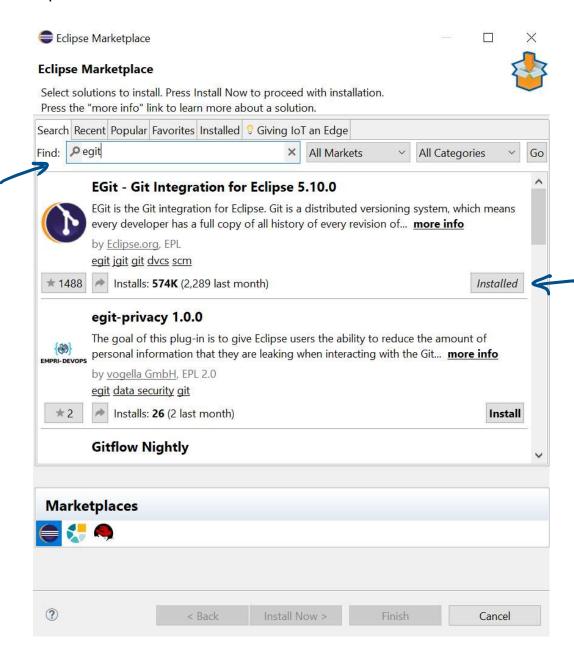
This lab enables you to understand how software developers in the industries are working across the globe, in different teams, and can develop one product together via their IDE (e.g., Eclipse) and Repository (e.g., GitHub) integrated together.

Follow the steps below to install the Git plugin

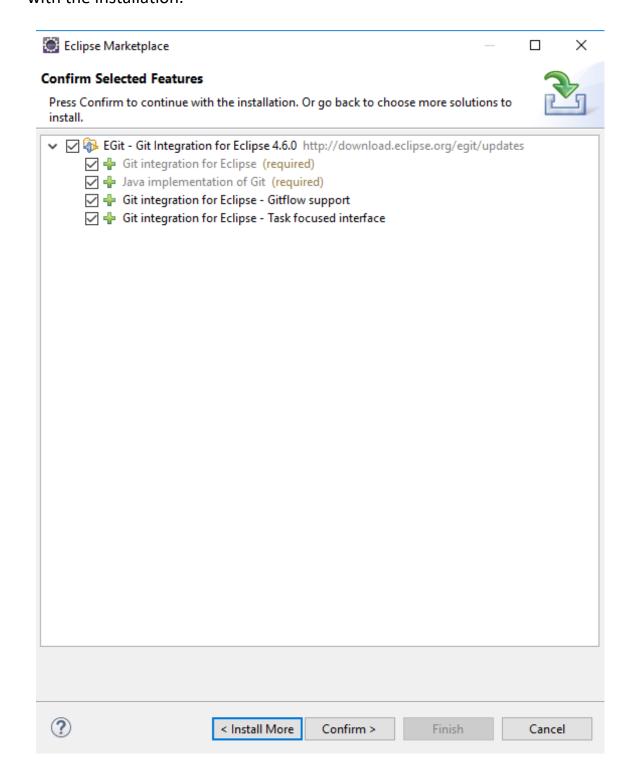
- 1. Open Eclipse
- 2. Click on Help → Eclipse Marketplace



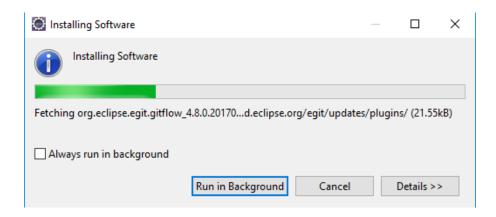
3. In the search box, type *egit*, and look at the results. If it shows *installed* for EGit (like in the snapshot below), then **go to step 7**; else, go to the next step.



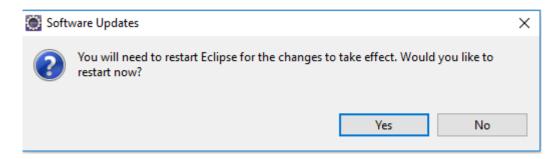
4. Click on the **Install** button. You will see the Eclipse marketplace window with the EGit installation option. **Select All** and click Confirm to proceed with the installation.



5. **Accept** the license terms click Finish. You will see the installation progress.



6. After installation completes, click yes to restart Eclipse.

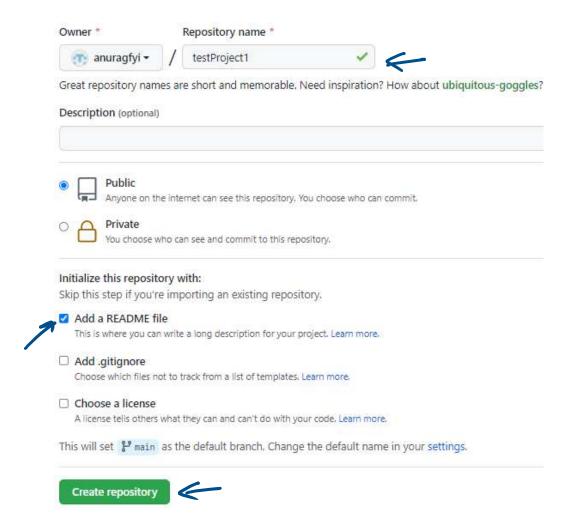


Creating a GitHub account and repository

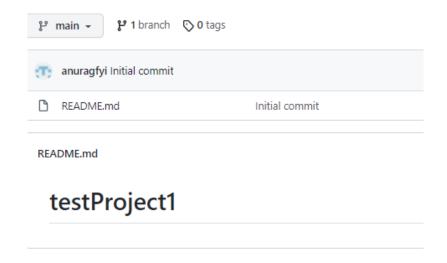
- 7. If you haven't created your GitHub account, please create it from https://github.com else skip this step
- 8. After the creation of the account, log in to your account, click on **Start a project**.



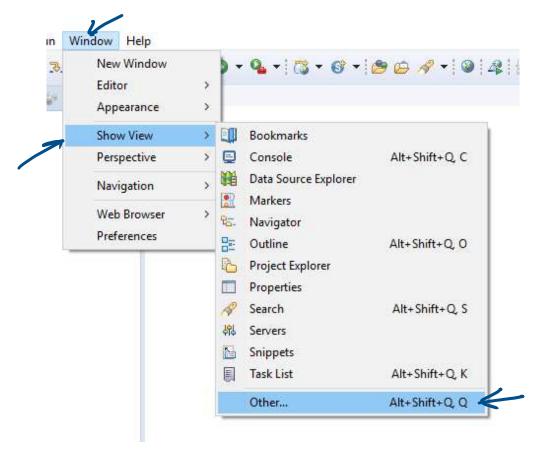
Input your repository name → check initialize this repository with a
 Readme → click create repository.



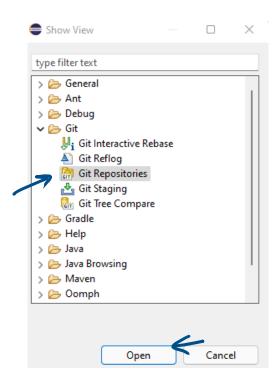
10. You will see the window below:



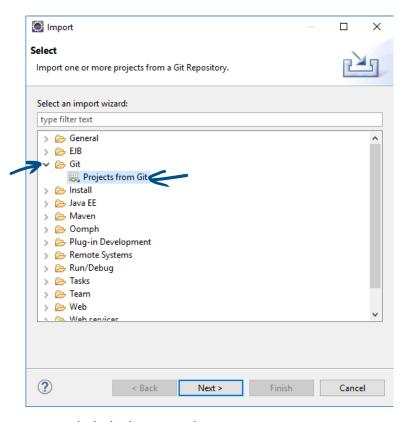
11.Go back to Eclipse and click on the Window tab → Show view → Other



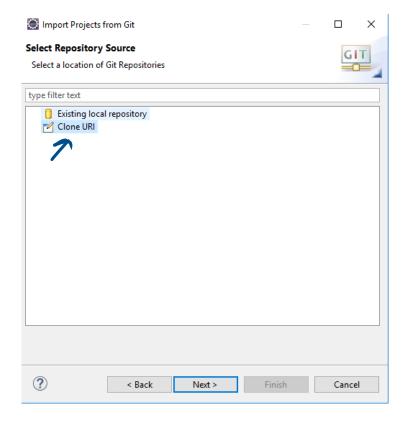
12.In the Show view windows, expand the Git option, select Git Repositories and click on the OK button.



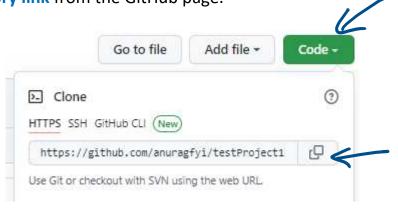
13. Click on the **File** tab on Eclipse and Goto **import** option. Under the Import window, expand **Git** and select **Projects from Git**. Click the Next button.



14. Select clone URI and click the Next button.

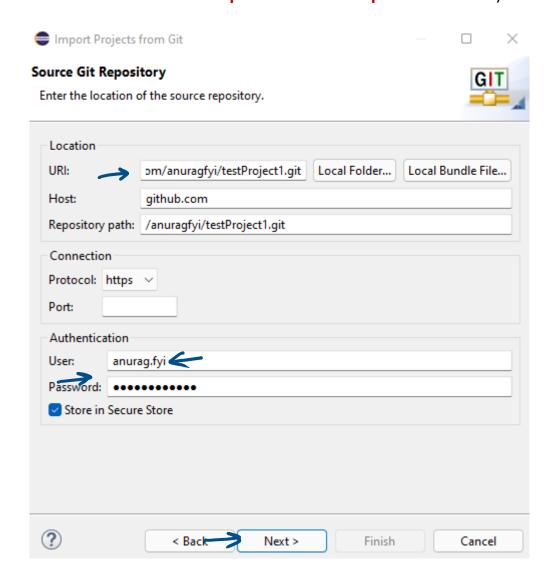


15.Go to the GitHub page again → Click on Code → Click on button to copy your repository link from the GitHub page.



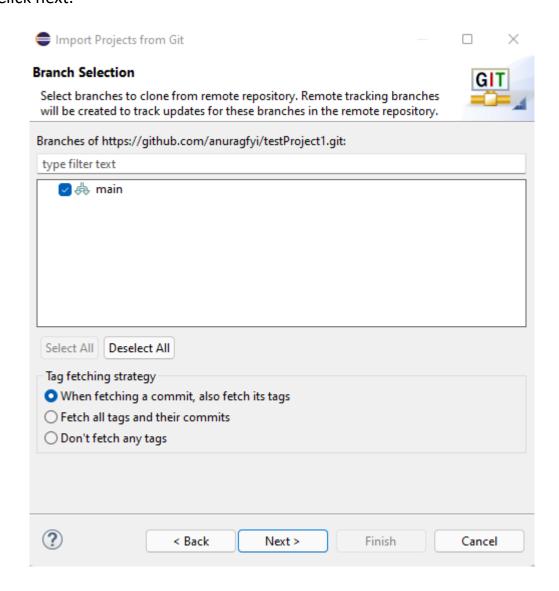
16.Paste the link in the URI window → type host as github.com → select

HTTPS protocol → enter your GitHub credentials (don't click on the store
in Secure Store checkbox – keep it unchecked on public machines)

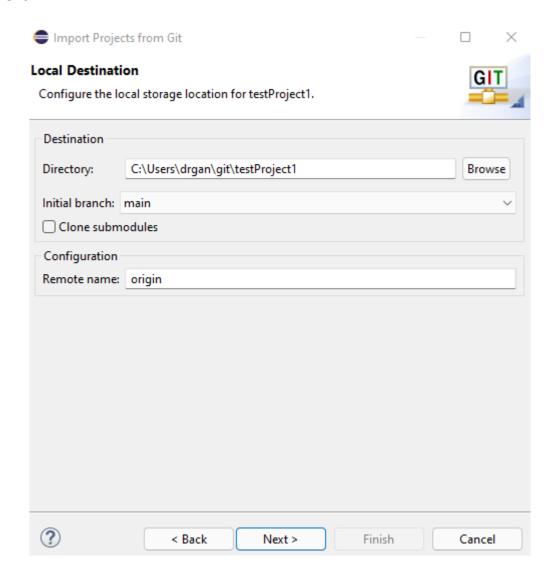


17.In branch selection windows, by default Master branch (main) is selected.

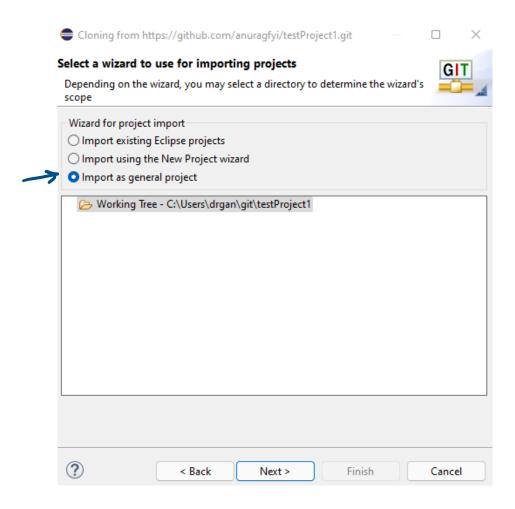
Click next.



18.In the Local Directory window, select the folder (if you want), else click next.



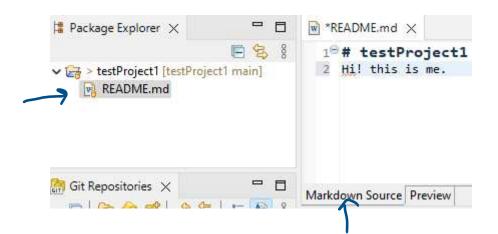
19.In the project wizard window, select the **general project** option and click next.



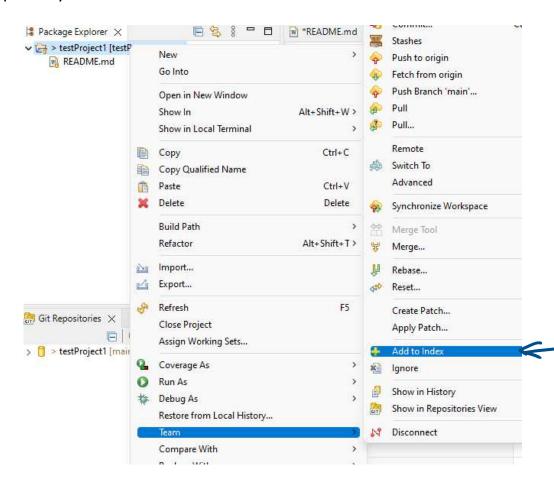
20.Click the Finish button on the next screen. You will see that your repository is cloned in Eclipse.



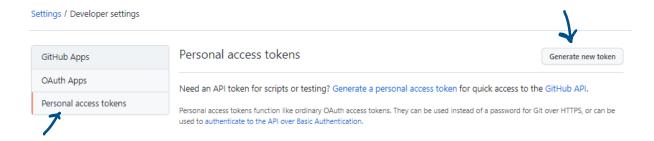
21.Expand and open the readme file in Eclipse and make some changes to it and save the file. Before making changes, make sure to click on **markdown source** to enable edit mode.



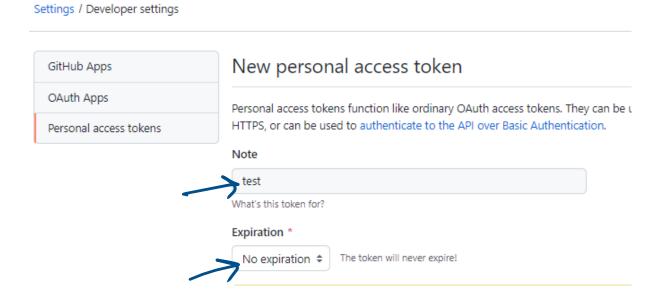
22.Right-click on your project → go to Team option → click on Add to Index option. This will mark the new files as ready to be moved to your repository.



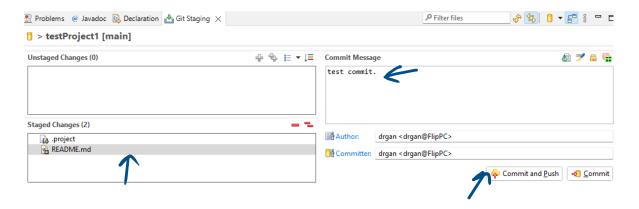
23.Go to Github once again. Go to **Settings > Developer settings > Personal access tokens** to create a Personal access token. When Eclipse asks for the password at the next step, enter the personal access token.



Give it a name and set the expiration as **No expiration** and **check all the check boxes** below (not shown in the image below). Click on **Generate token** button at the bottom. **Copy your personal access token.**



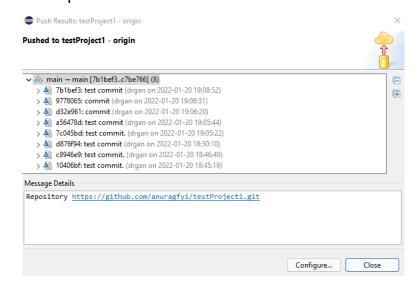
24.Right-click on your project → go to Team option → click on Commit → add
a commit message and click on Commit and Push button if you want
changes to be pushed to GitHub.



25. Eclipse will ask for your username and password. For username enter your Git username and for password enter the token you copied in the last step. Click on **Login button**.

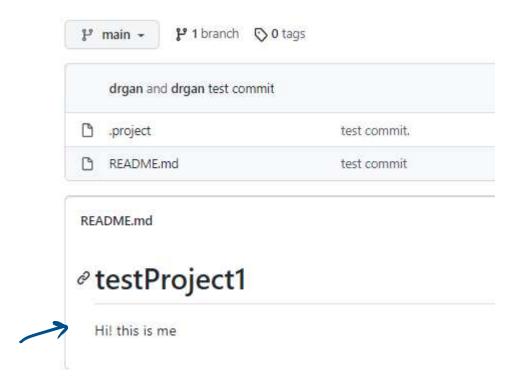
Login	×			
Repository	https://github.com/anuragfyi/testProject1.git			
User	anuragfyi			
Password	4			
Store in Secure Store				
	<u>L</u> og in Cancel			

26. You will see the push results. Click close button.



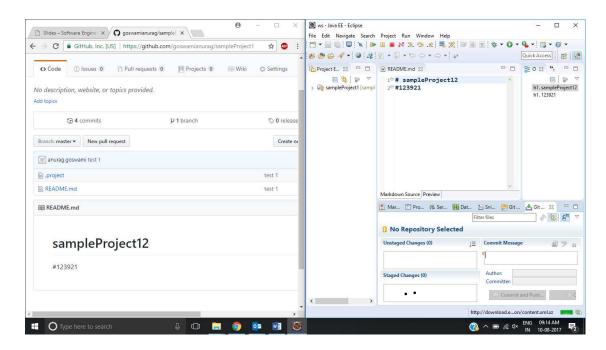
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27.Go to the GitHub repository page opened in the browser → Refresh the page, and you will see changes in the Git file contents (as it was updated and pushed from Eclipse IDE)



28.Congratulations! You have successfully connected/integrated your Git repository with Eclipse IDE to work on the projects.

29. Take a snapshot of your Git repository and eclipse windows together (to show both the changes in one image) as shown in the example below:



Submit the snapshot from the step# 29 above and your original 'Readme' file from Git Repository (total two files) as your LMS lab task.

Full tutorial: https://wiki.eclipse.org/EGit/User Guide