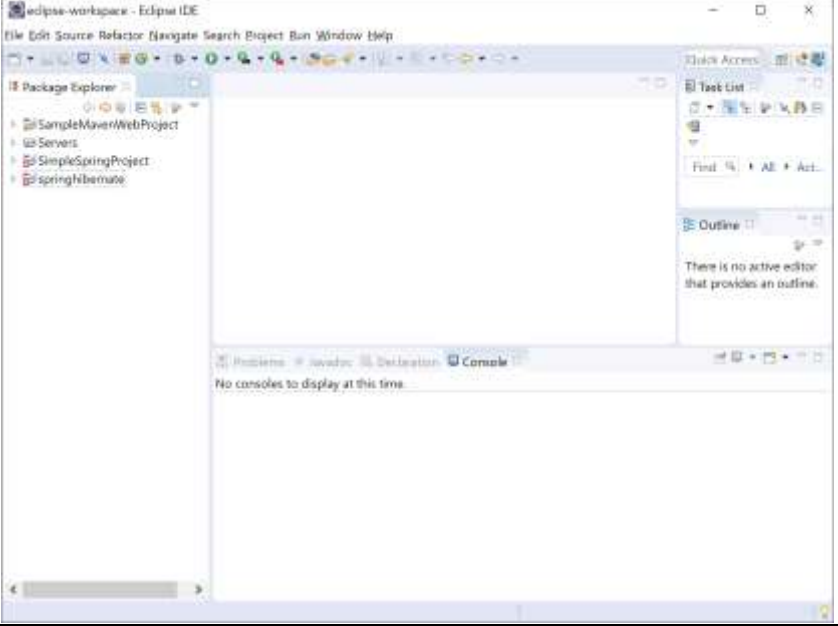
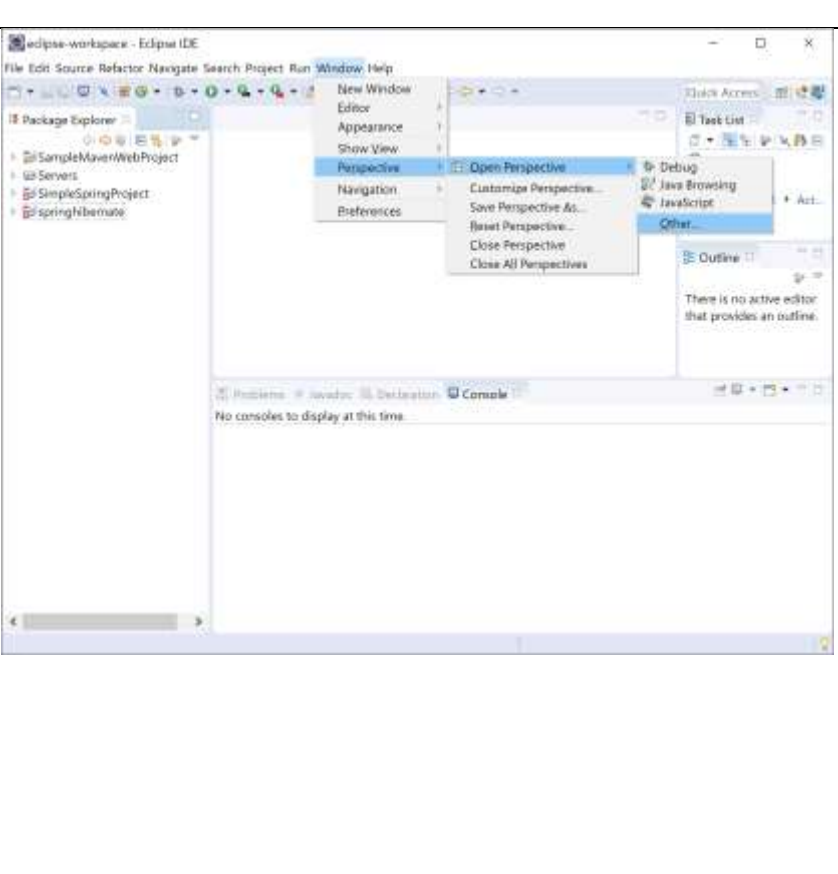
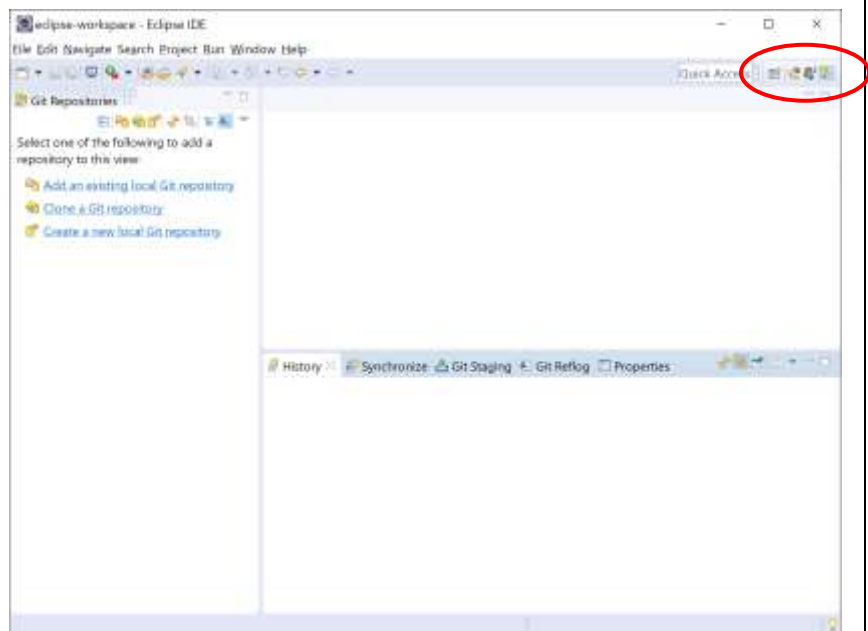
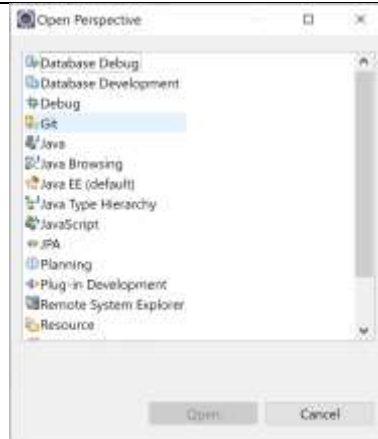


## Lab 01: Eclipse and GitHub Basic

(Ref: <https://www.youtube.com/watch?v=XuuzSaelUzo>  
<https://guides.github.com/introduction/flow/>)

|   |   |
|---|---|
| <p>Step 1: Open Eclipse</p>   |   |
| <p>Step 2: Adding Git perspective</p> <p>Choose Window → Perspective → Open Perspective → Other</p> |  |

Choose Git

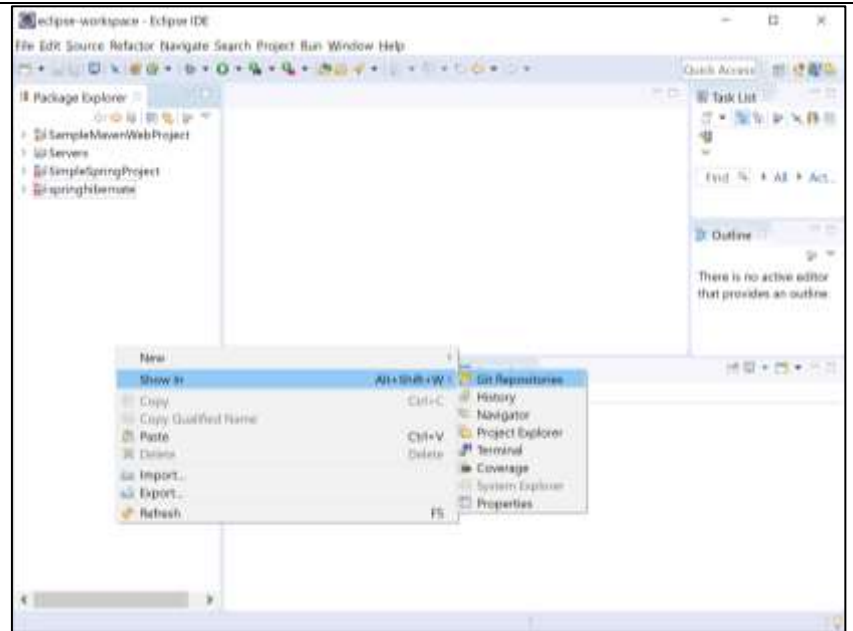


Step 3: Go back to Java perspective and show Git Repository

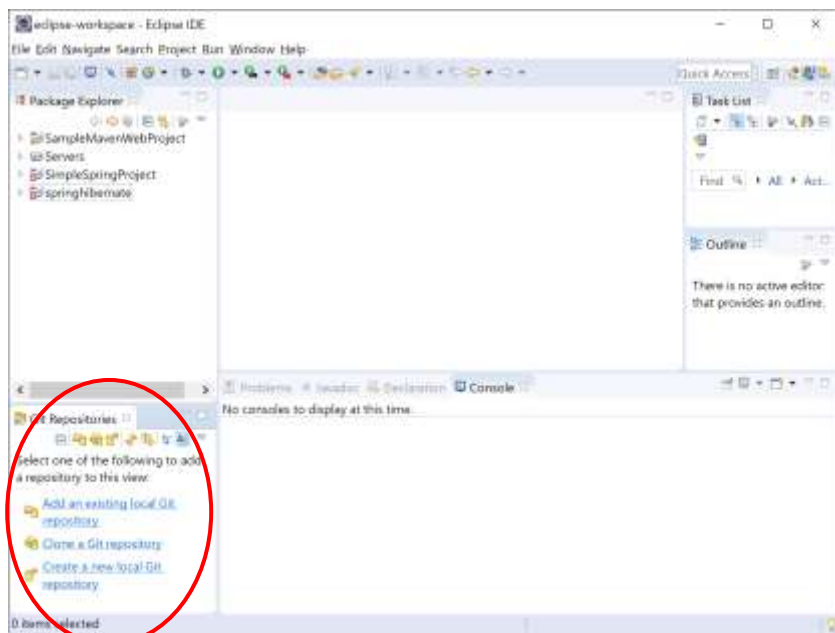
Click the Java perspective on the upper right corner



Right click on any space in the Package Explorer



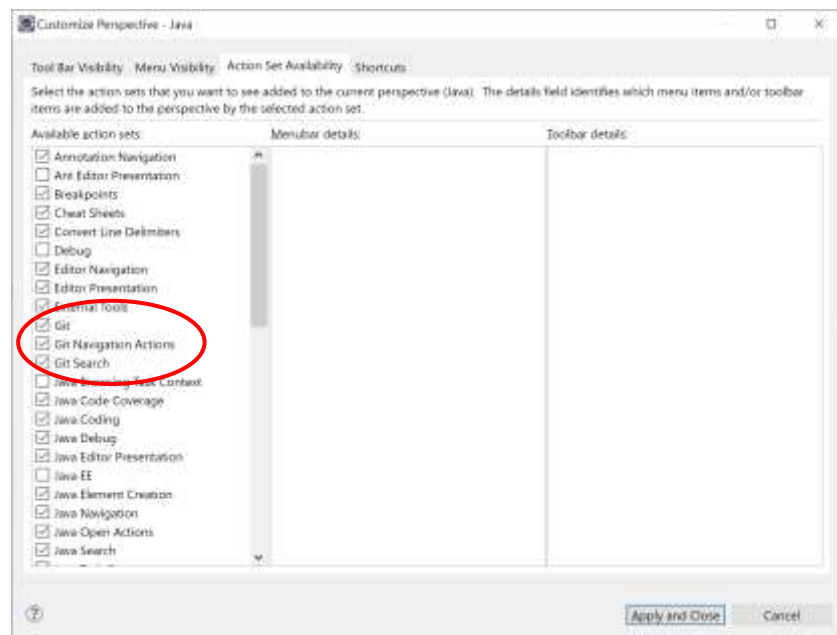
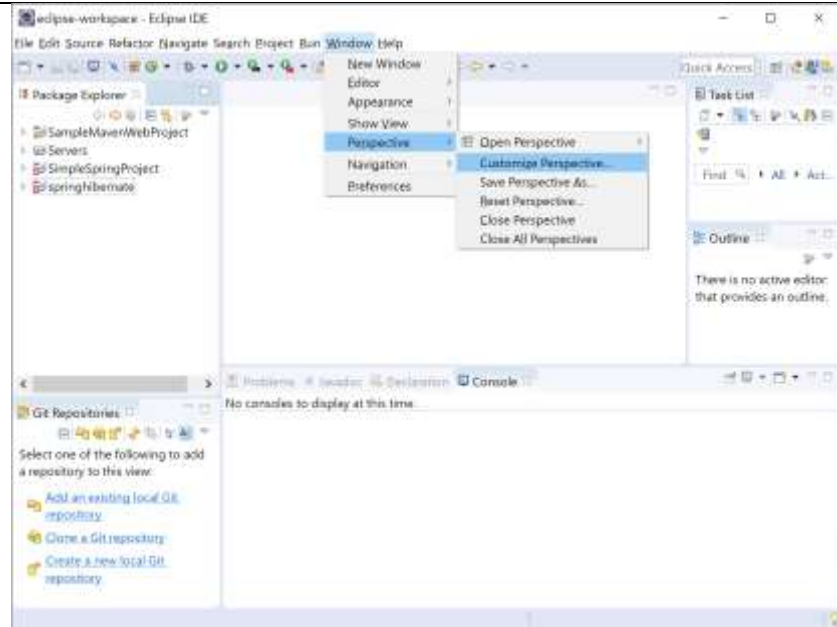
Choose Show In → Git Repositories



#### Step 4: Add Git too bar

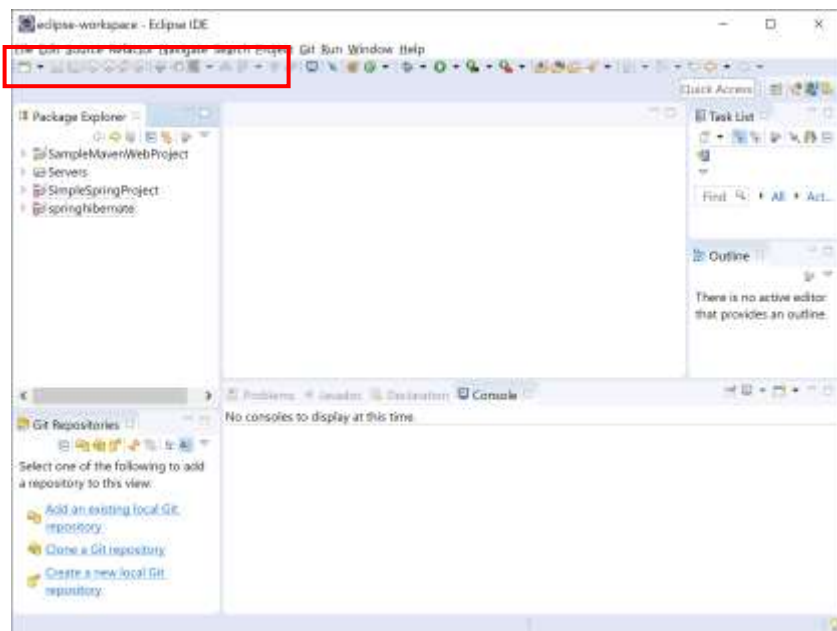
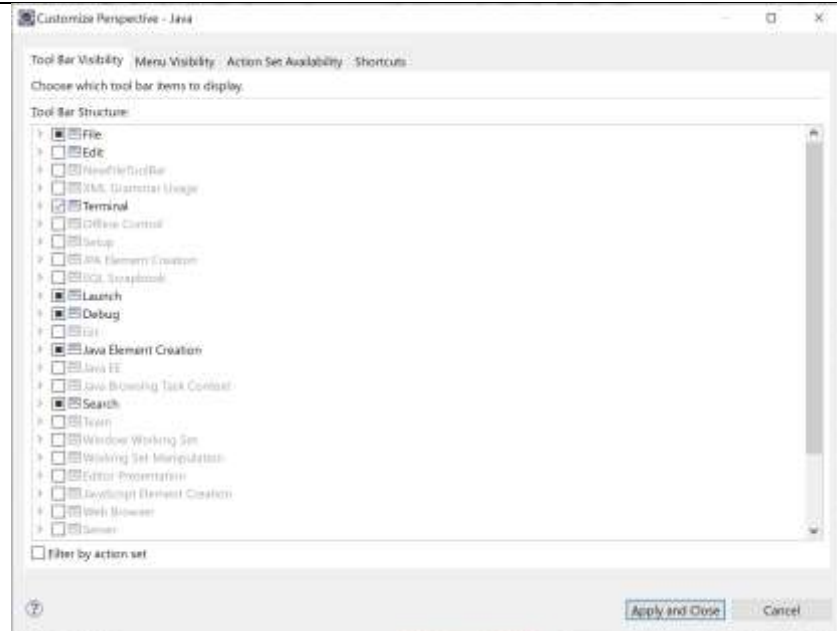
Choose Window →  
Perspective → Customize  
Perspective

Go to Action Set Availability  
Tab and check the boxes Git,  
Git Navigation Actions and  
Git Search



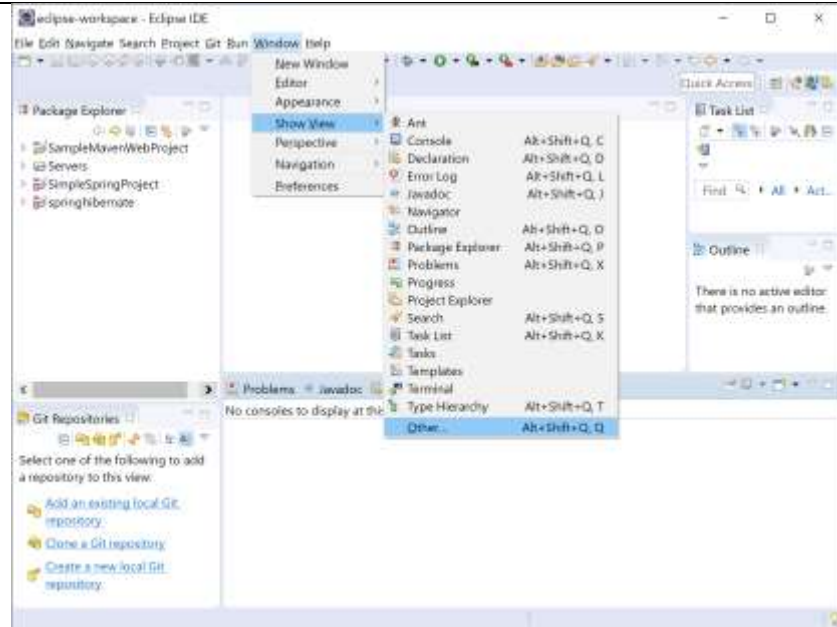
Go to Tool Bar Visibility and check the box Git

Apply and close

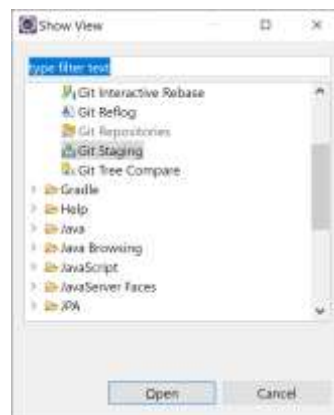


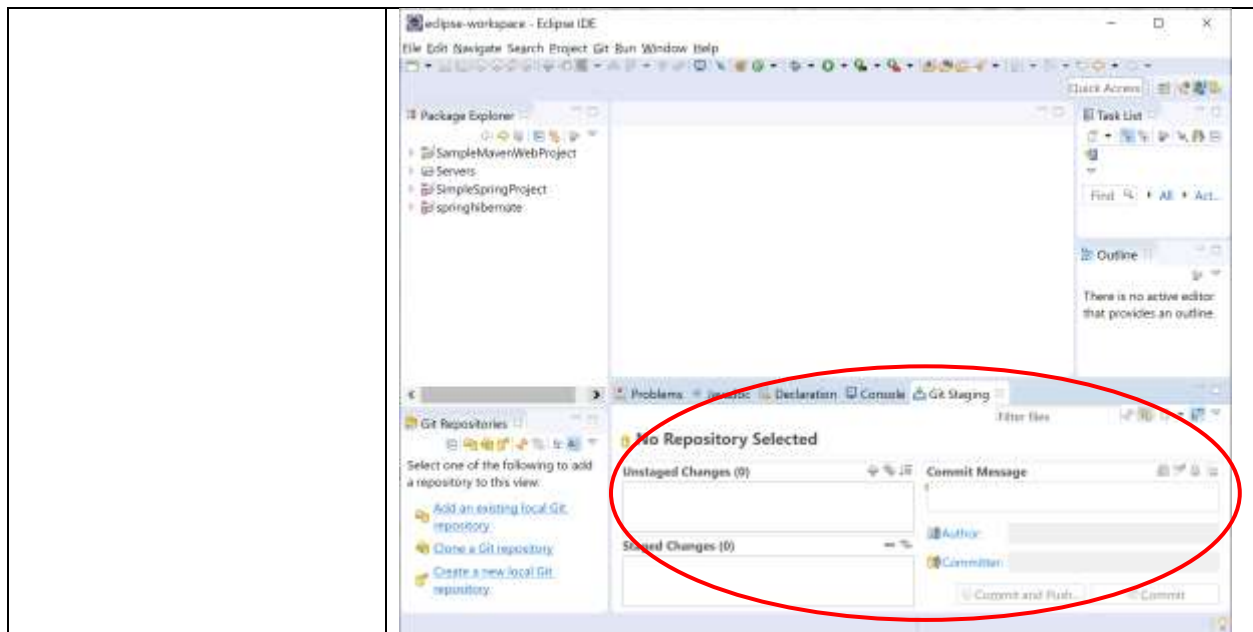
## Step 5: Add Git Staging View

Choose Window → Show View → Other



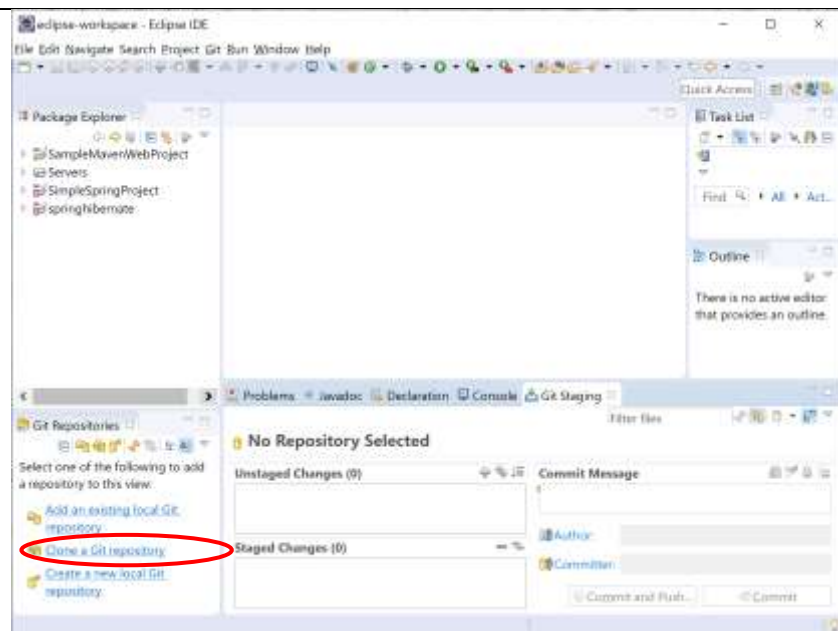
Choose Git Staging in the dialog



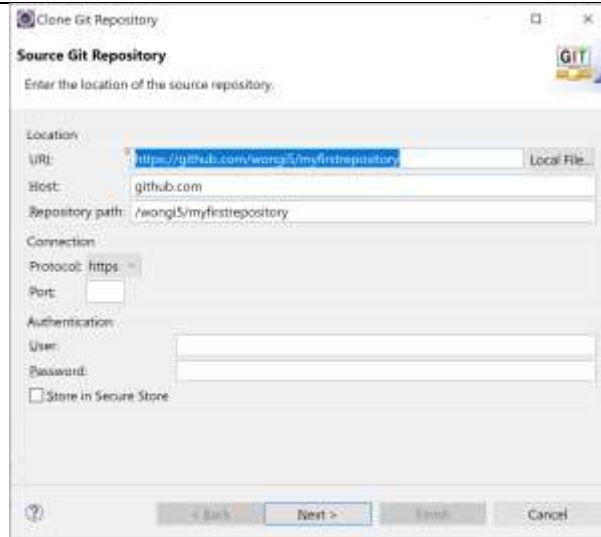


Step 6: Clone an existing Github Repository

Click the link Clone a Git Repository



Fill in the information as shown and click Next



**Clone Git Repository**

**Source Git Repository**

Enter the location of the source repository.

Location

URI:  Local File...

Host:

Repository path:

Connection

Protocol:

Port:

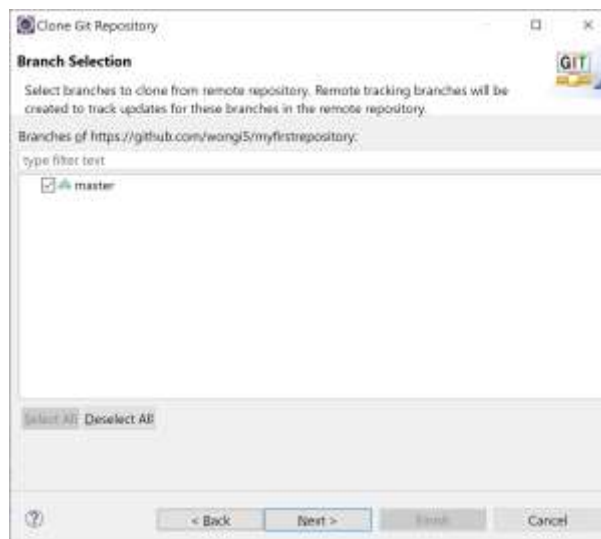
Authentication

User:

Password:

☐ Store in Secure Store

Choose Master and click Next



**Clone Git Repository**

**Branch Selection**

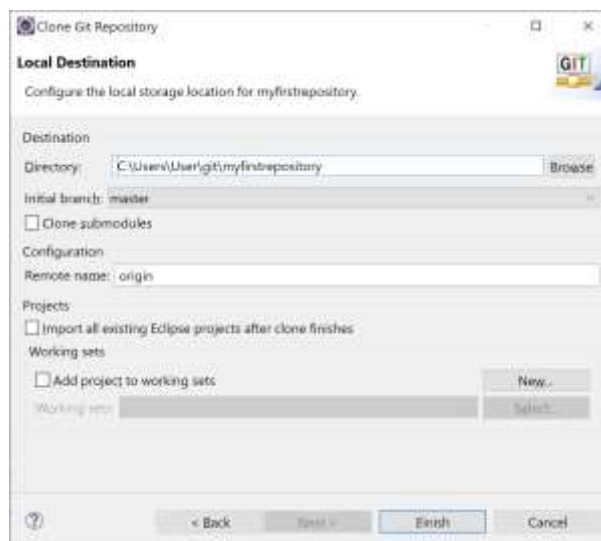
Select branches to clone from remote repository. Remote tracking branches will be created to track updates for these branches in the remote repository.

Branches of <https://github.com/wong25/myfirstrepository>:

type filter text

☒ master

Keep the filled information and click Finish



**Clone Git Repository**

**Local Destination**

Configure the local storage location for myfirstrepository.

Destination

Directory:  Browse...

Initial branch:

☐ Clone submodules

Configuration

Remote name:

Projects

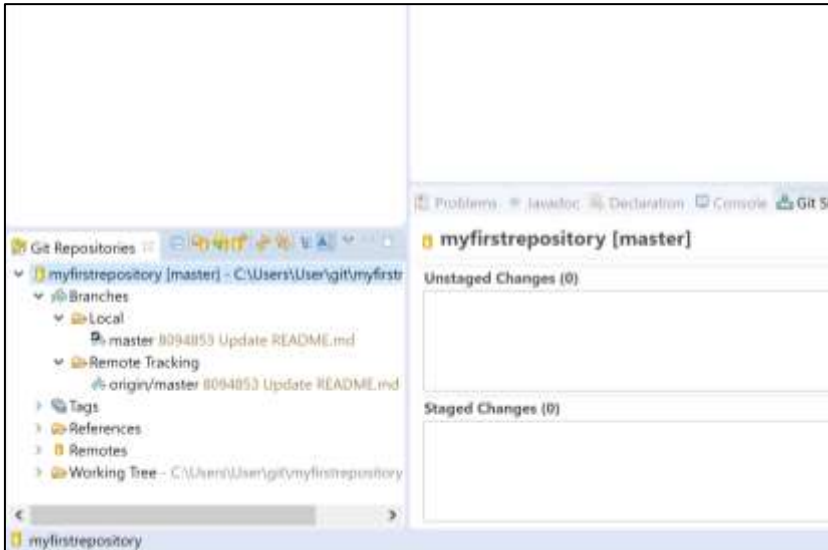
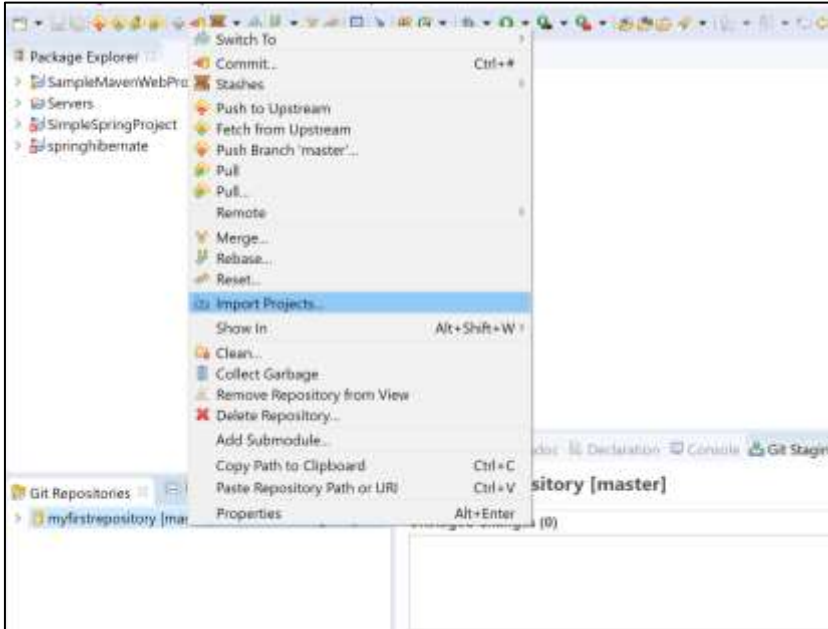
☐ Import all existing Eclipse projects after clone finishes

Working sets

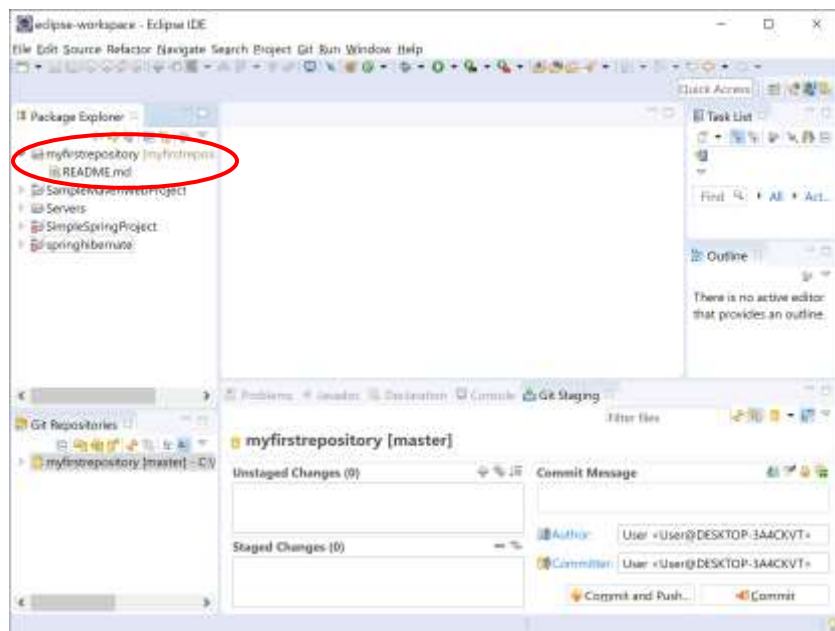
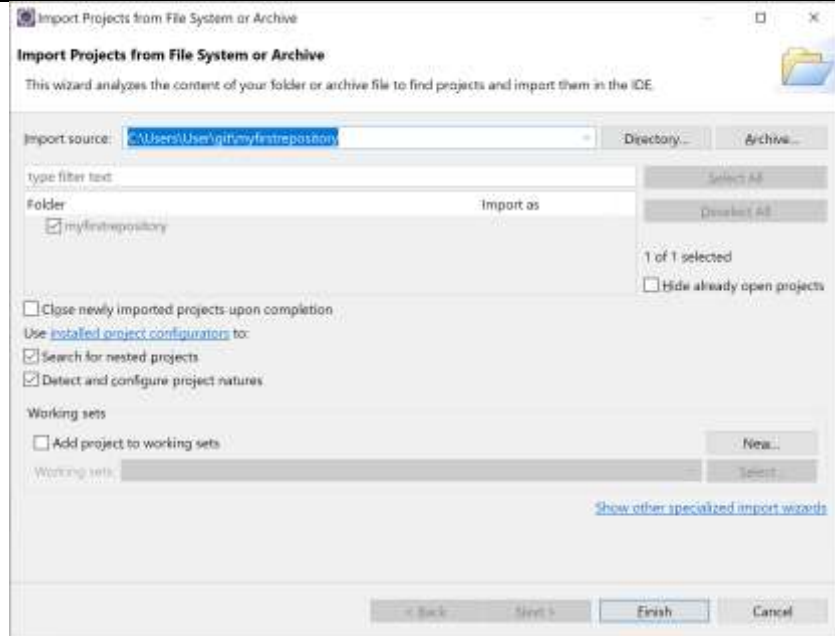
☐ Add project to working sets

Working sets:



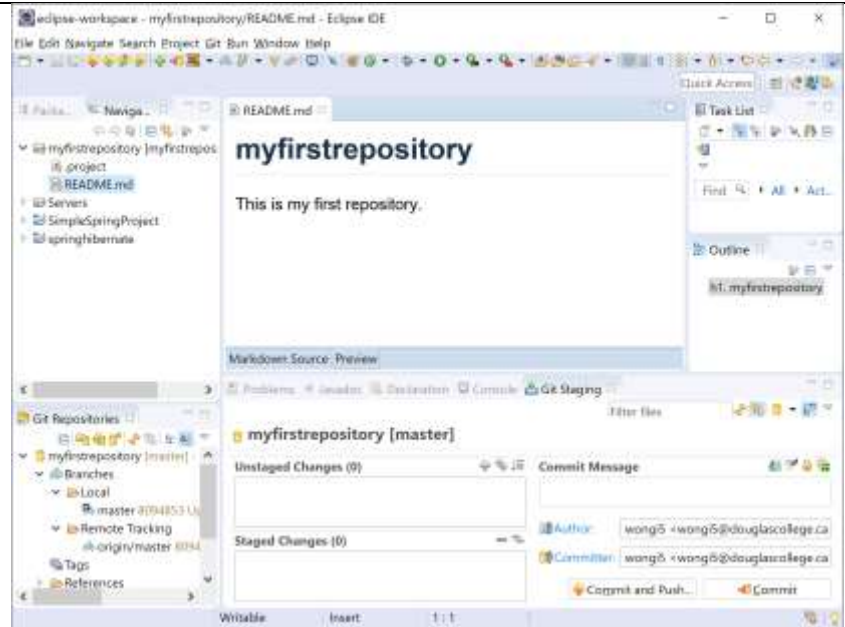
|  |   |
|--|---|
|  |   |
| <p>Step 7: Import Project</p> <p>Right-click the repository and choose Import Projects</p> |  |

Click Finish in the dialog



Step 8: Open README.md

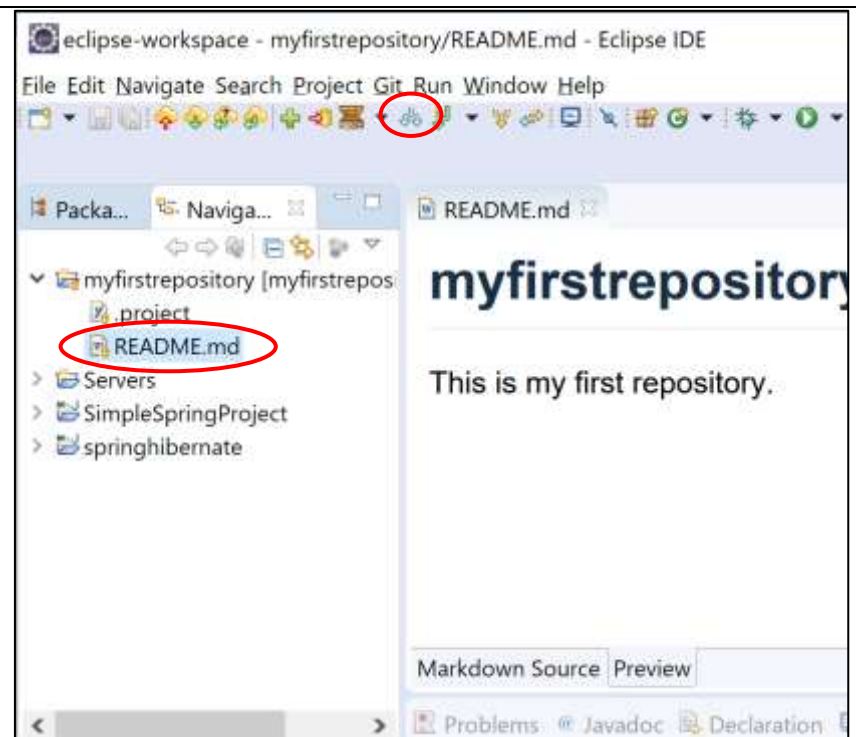
Double-click README.md in the Package Explorer



Step 9: Create a new branch to edit README.md

Select README.md in the Package Explorer

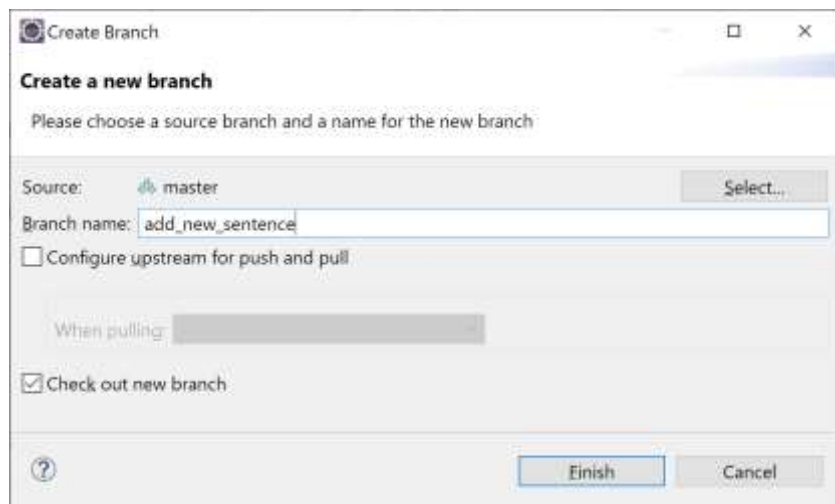
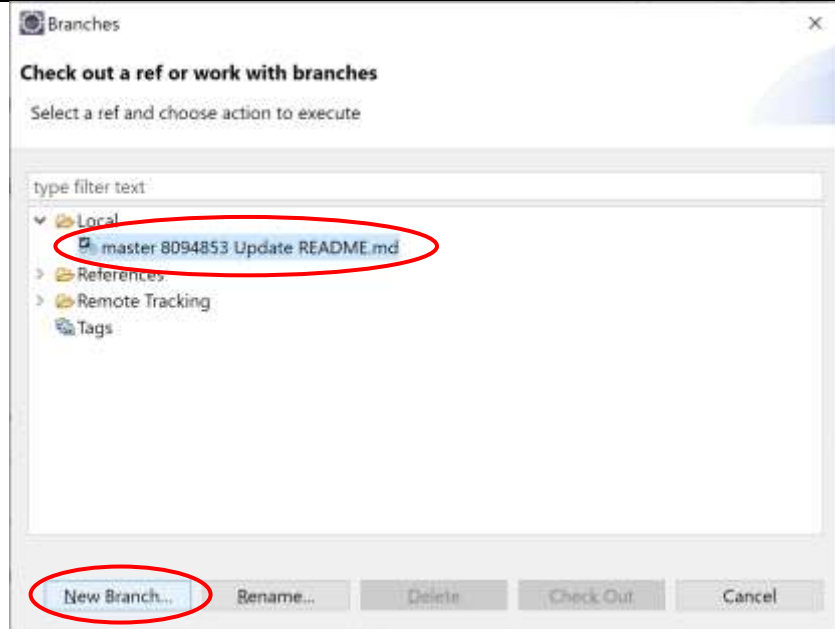
Click the icon Check out branch, tag or reference



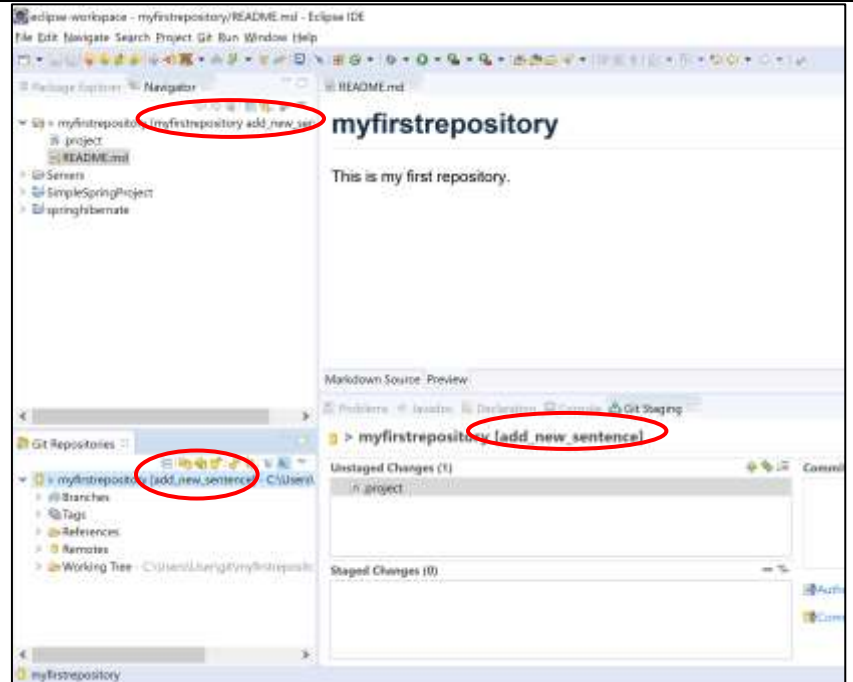
Choose the README.md in the master branch

Click New Branch

Give a name to the new Branch and click Finish



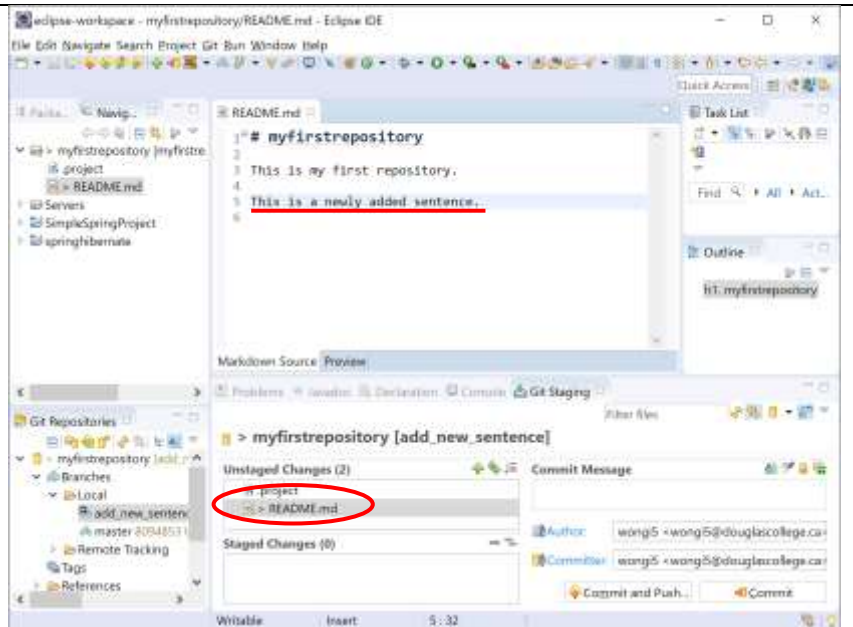
You can switch between repositories by clicking the icon Check out branch, tag or reference and choose Check Out



Step 10: Edit and commit in a branch

Make sure you are in the new branch

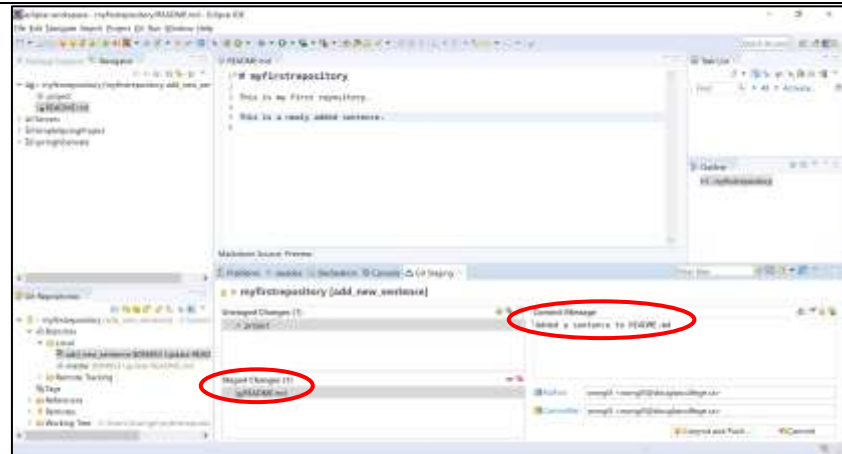
Edit the README.md by adding a sentence and Save



Drag-and-drop the README.md from Unstaged Changes to Staged Changes. This is to prepare to commit the changes in the repository.

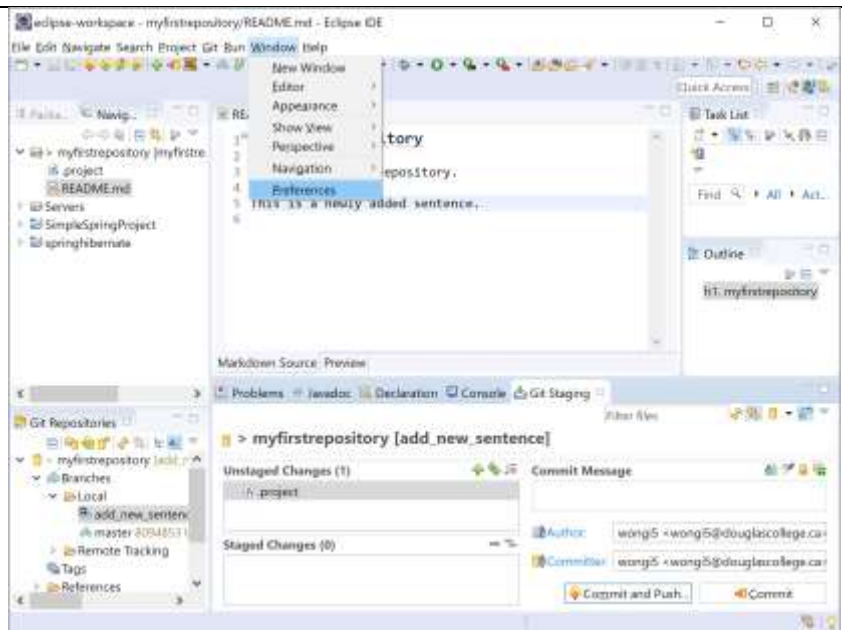
Add a comment to the Commit Message. Normally it shows the purpose of the changes and summary what you have done.

Click the Commit button



Step 11: Configure Git and Push the new branch to GitHub

Choose Window → Preference



Choose Git → Configuration

Click Add Entry to add the following Key-value pair:

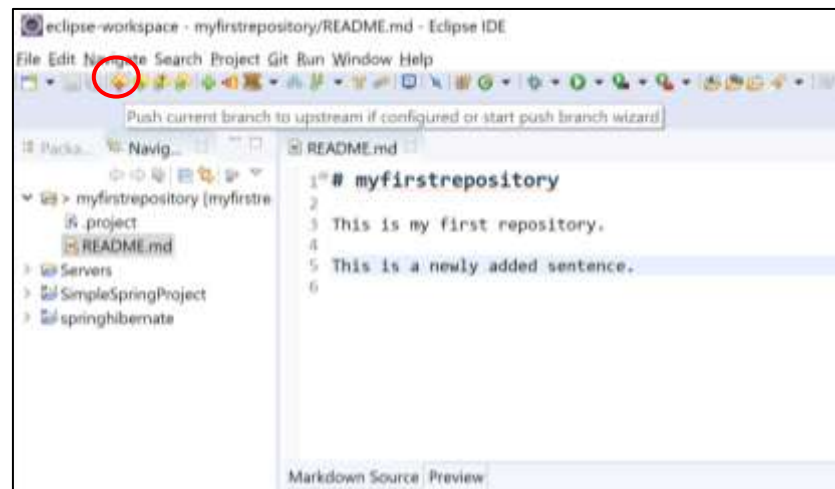
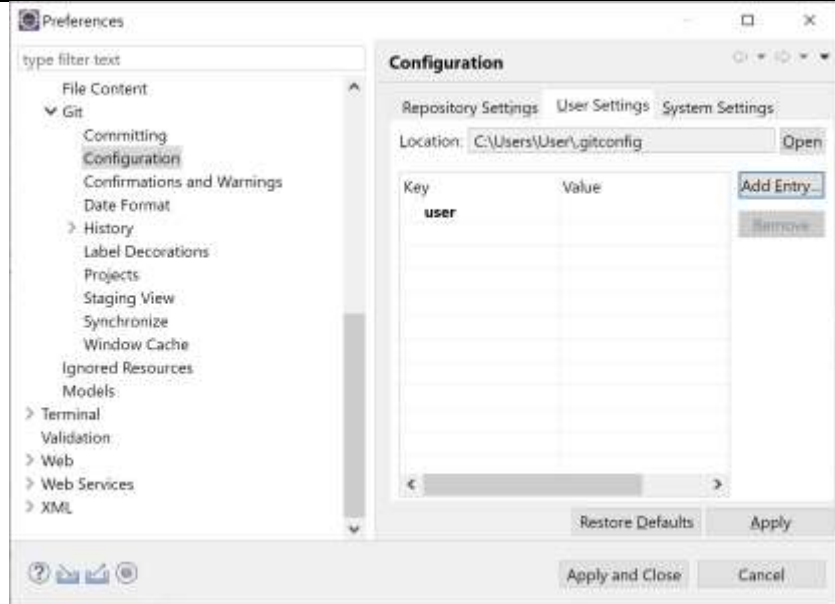
Key: user.name

Value: <Your Name>

Key: user.email

Value: <The email of your email account>

Click the button Push the current branch to upstream if configured or start push branch wizard





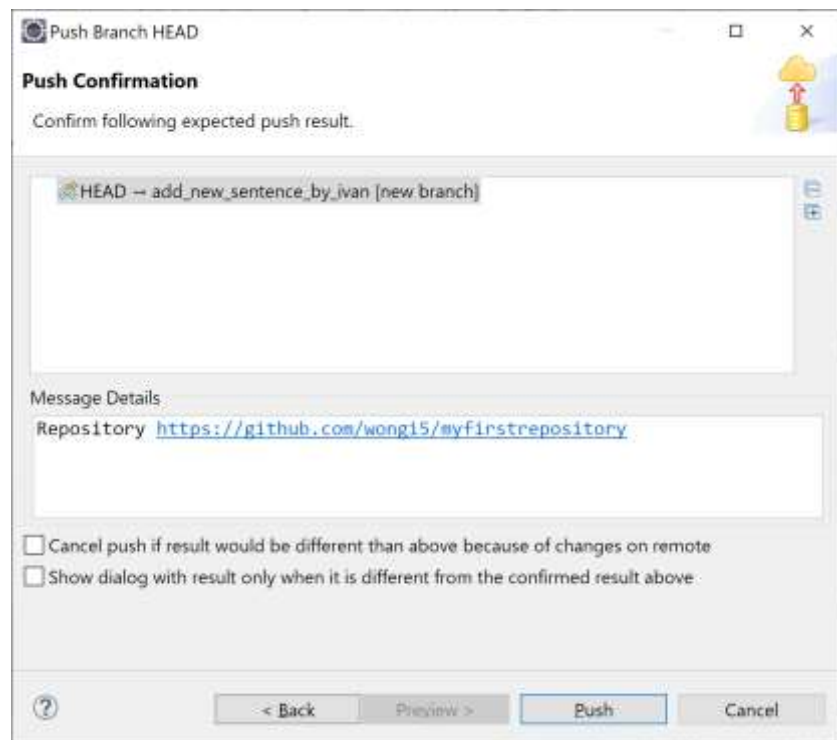
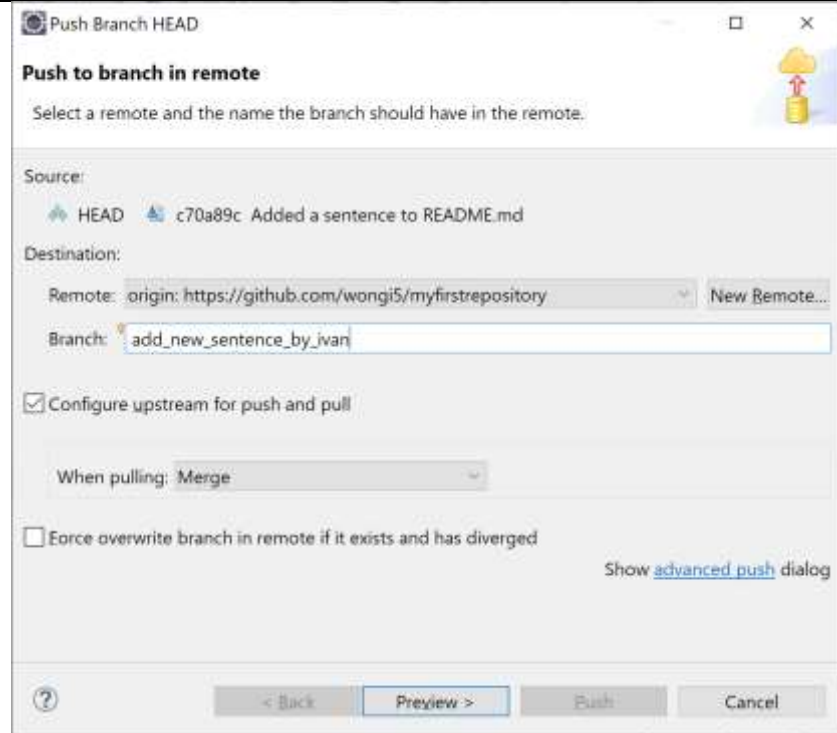
In the Branch field, change to a preferred name

Click Preview

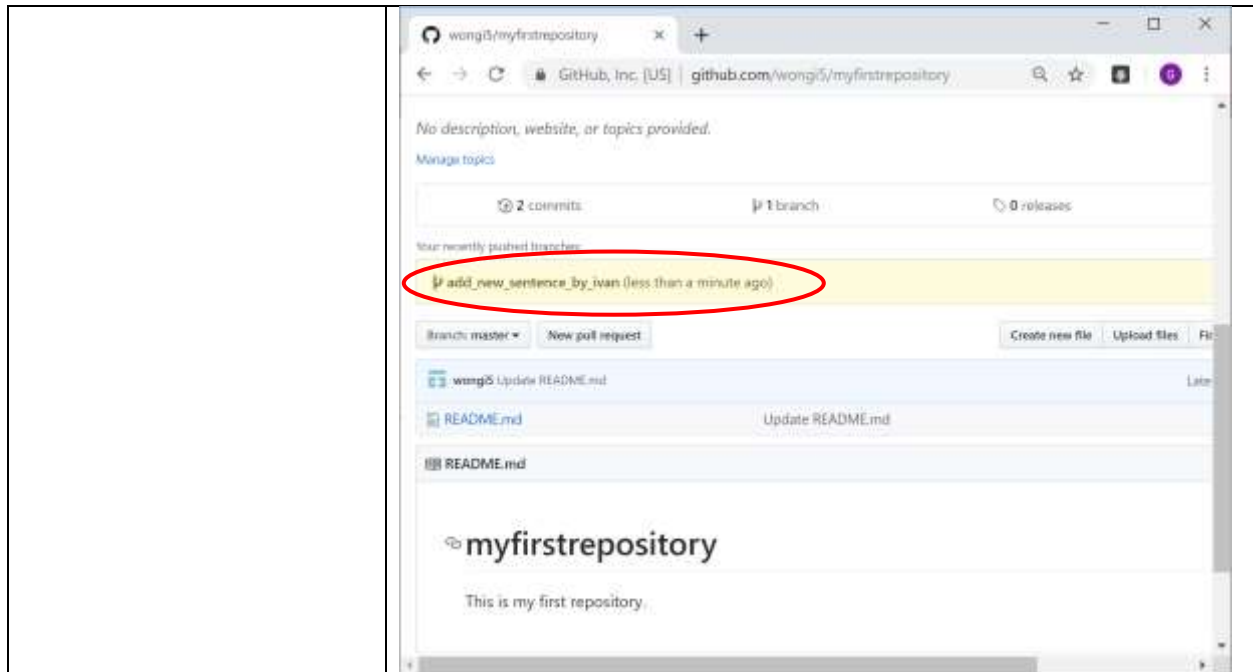
Input your GitHub account info if asked

Click Push

Input your GitHub account info if asked





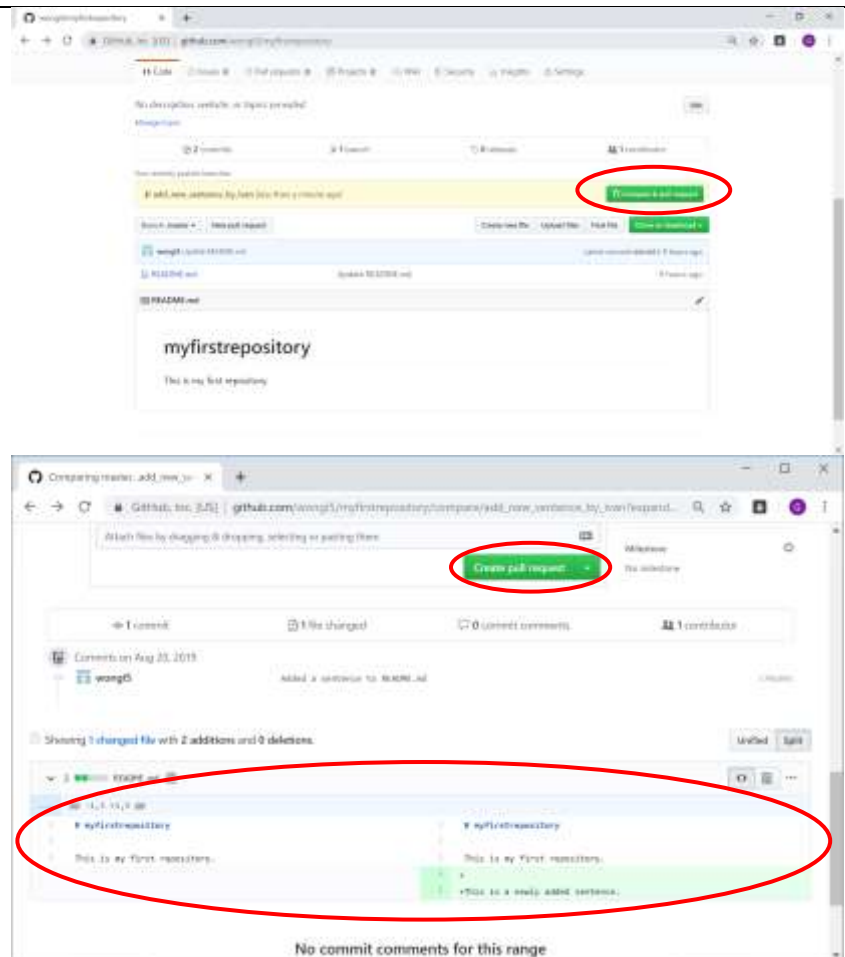


## Step 12: Merge in GitHub

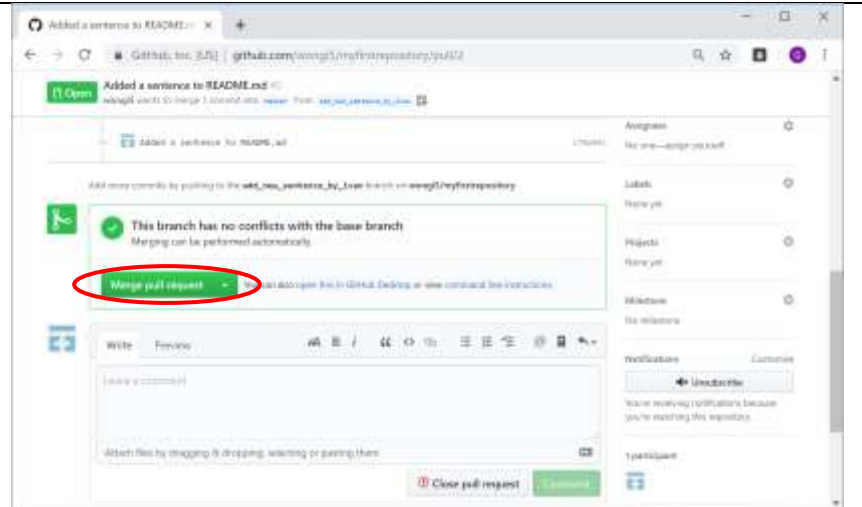
In the repository of GitHub, click Compare and pull request

You can see the difference between the README.md in the master branch and the README.md in the new branch.

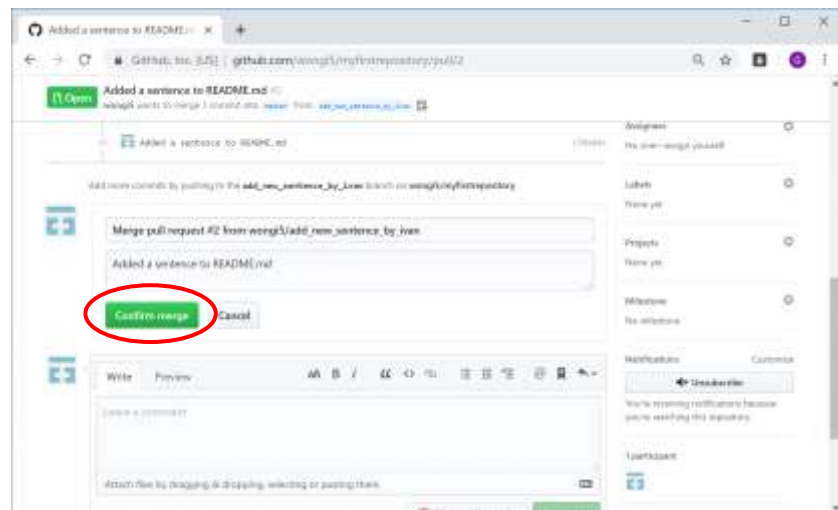
Click the Create pull request button



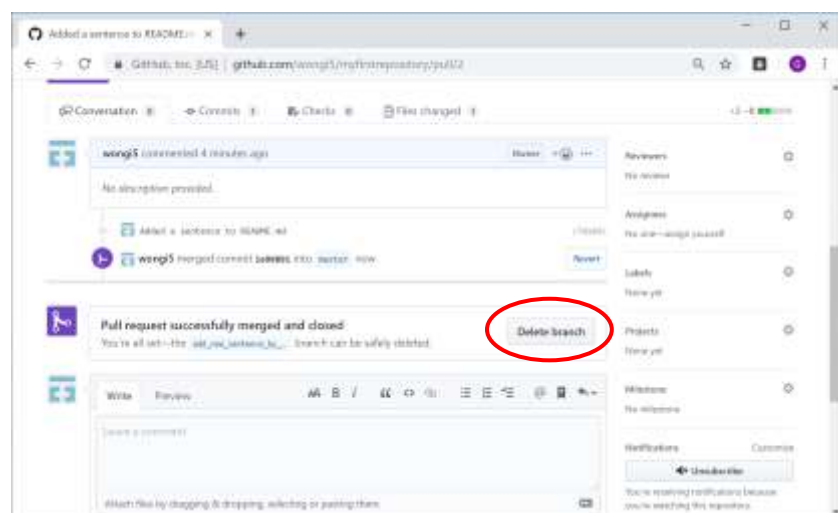
Click the Merge Pull Request to merge the two files.



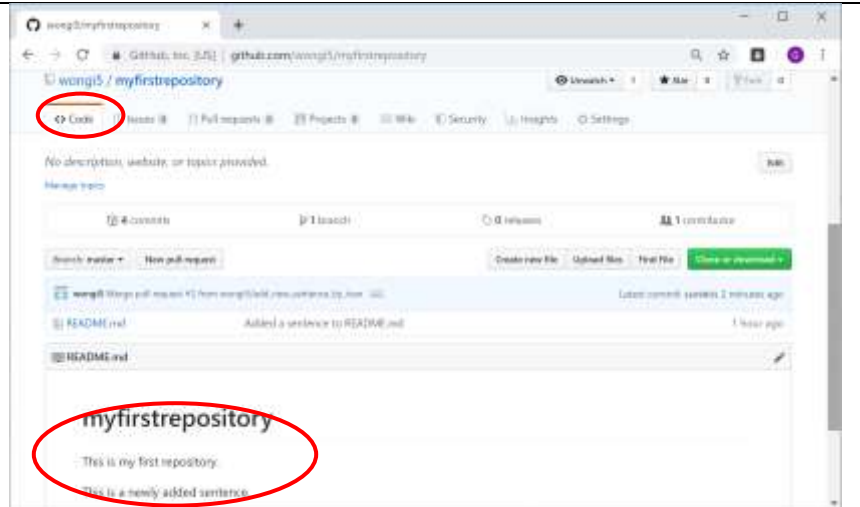
Confirm the Merge



Click Delete the delete the new Branch in GitHub because it is no longer used.



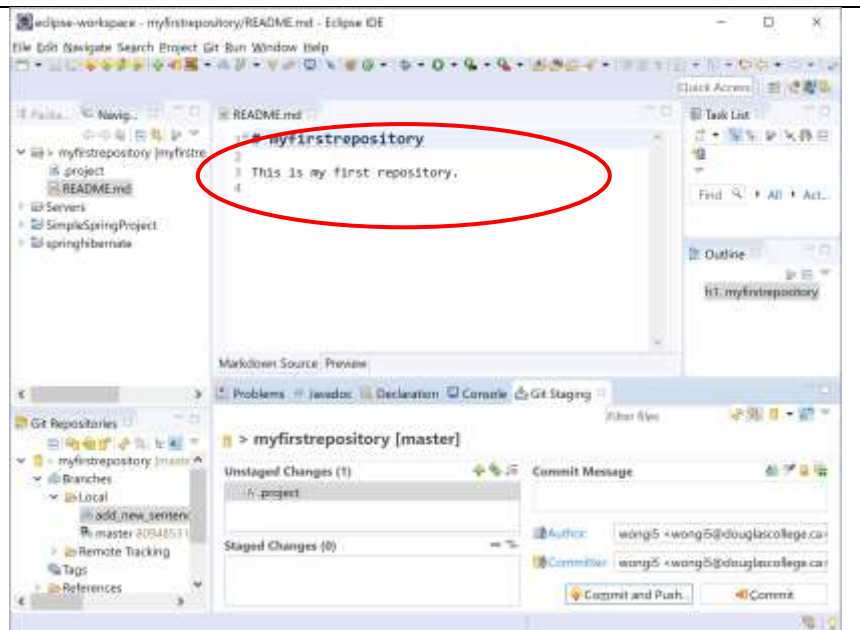
Go to <> Code and you can see the README.md is updated



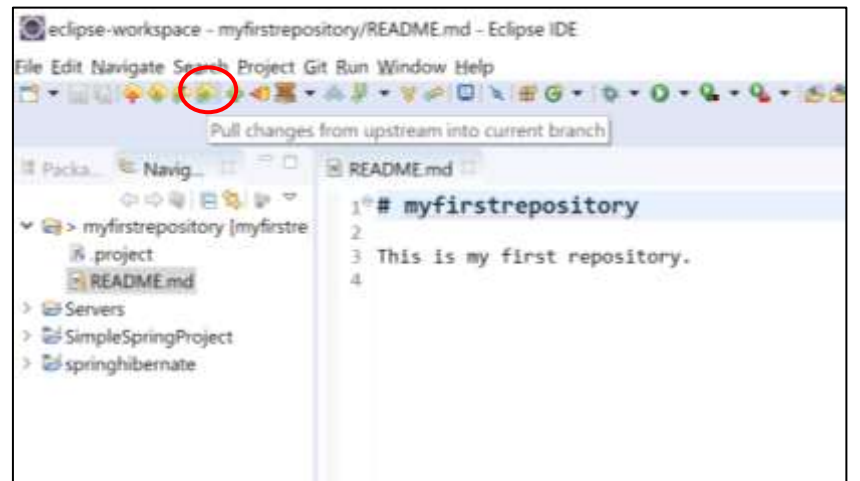
Step 13: Pull changes in Eclipse

Change to the Master branch in Eclipse

Note that the README.md is not updated



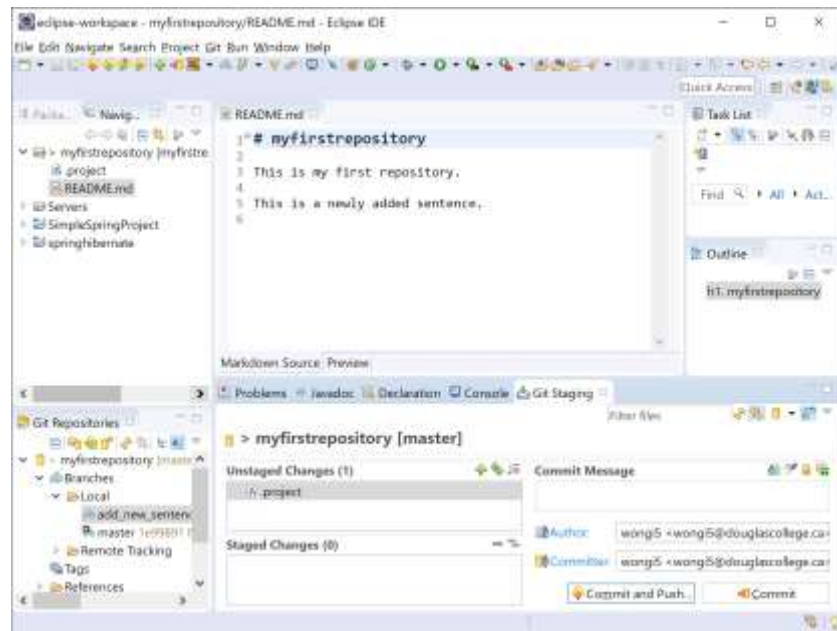
Click the button Pull changes from upstream into current branch



Click Close after reviewing the summary



Note that the README.md is updated



~~~ END ~~~