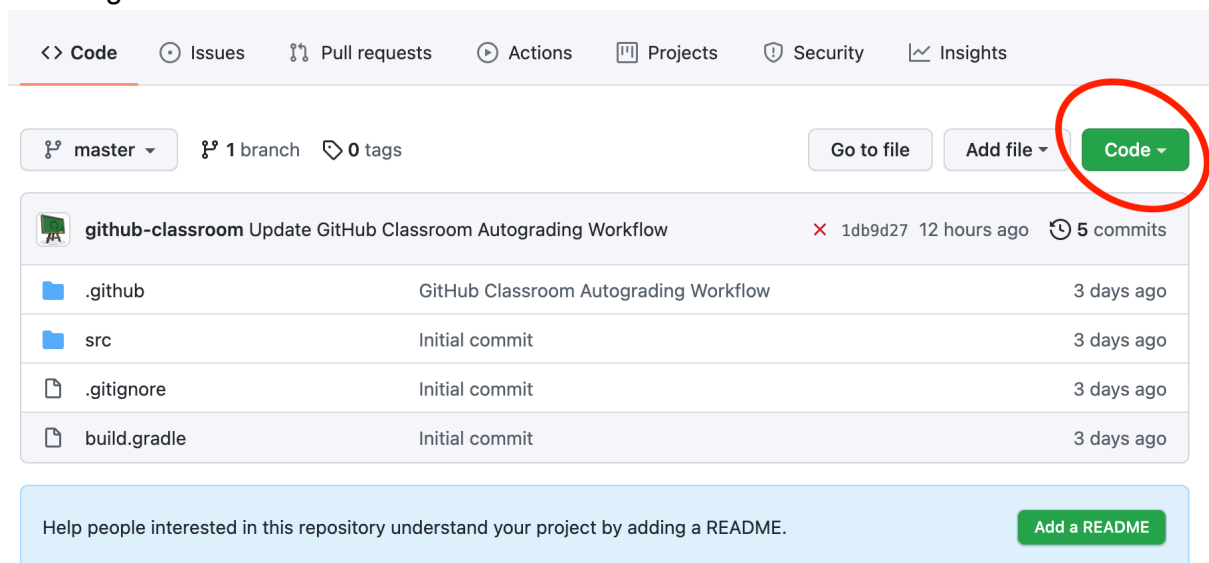


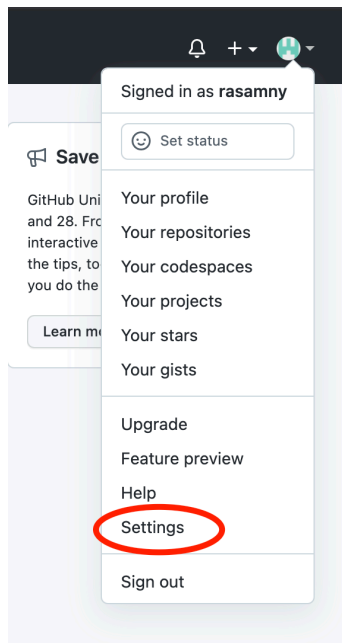
Github and IntelliJ

Please follow the directions below EXACTLY to complete this recitation successfully.

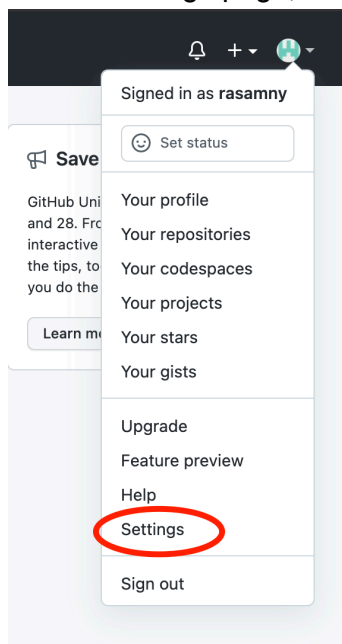
1. If you do not have a GitHub account, head over to <https://github.com> and sign up for an account.
2. If you have not install IntelliJ, go to [IntelliJ Download](#) and download and install the IntelliJ IDE Community Edition. This is the free version of the IDE.
3. Click on [GitHub Repo](#). Click on the **Use this template** button. This will make a copy of your instructor's repo on your account.
4. You should now see your repository with a green Code button on the top right as shown in the image below.



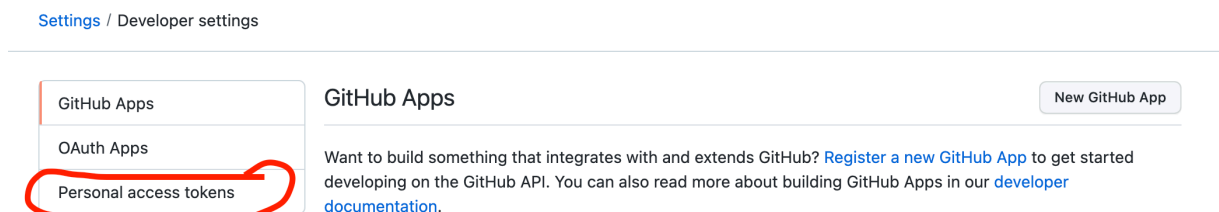
5. You will now need to create a Github authentication token to be used in IntelliJ. Click on your avatar on the top right of the screen. You should see a drop-down menu as shown in the image below. Select Settings.



6. On the Settings page, click on the Developer Setting menu item on the left as shown below.



7. Select the **Personal Access Tokens** as shown in the image below. Make sure to select **Tokens (Classic)**.



- Click on **Generate new token** button and again select the classic option.
- Enter **General Access** in the Note textbox and select the repo, workflow, gist, and read:org checkboxes as shown in the image below. Also, for the expiration, select custom and enter May 31, 2023. This will make your token valid for the entire semester.

The screenshot shows the 'New personal access token' page on GitHub. On the left, a sidebar contains 'GitHub Apps', 'OAuth Apps', and 'Personal access tokens' (highlighted with a red box). The main content area has a title 'New personal access token' and a description. Below this, the 'Note' field is highlighted with a red circle and contains the text 'IntelliJ'. The 'Expiration' section is also highlighted with a red circle, showing 'Custom...' selected and the date '12/31/2021'. The 'Select scopes' section is a table of permissions, with several checkboxes highlighted by red circles: 'repo', 'workflow', 'read:org', and 'gist'. The 'Generate Token' button at the bottom is highlighted with a green box.

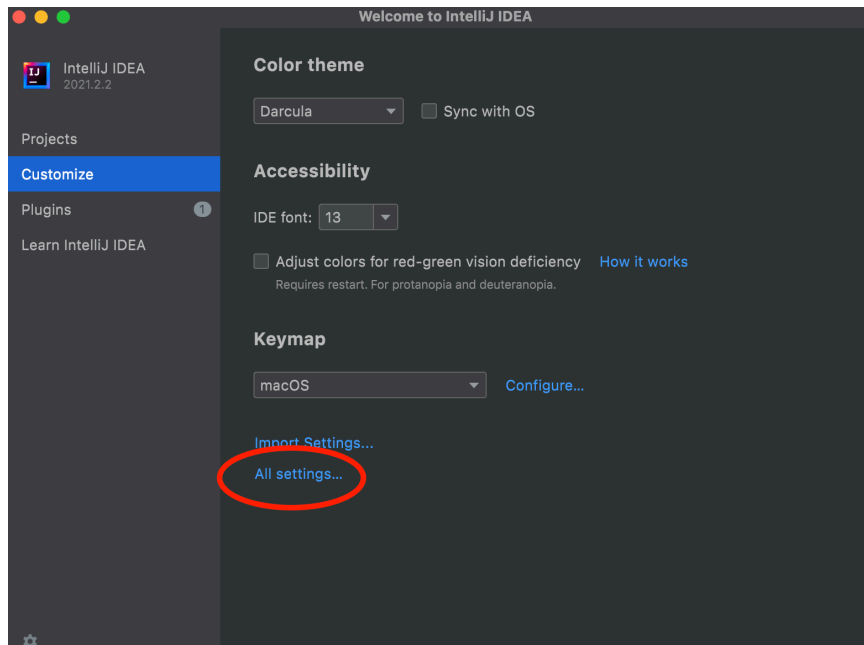
New personal access token	
Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication .	
Note IntelliJ	
Expiration Custom... 12/31/2021	
Select scopes Scopes define the access for personal tokens. Read more about OAuth scopes.	
<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input checked="" type="checkbox"/> repo:invite	Access repository invitations
<input checked="" type="checkbox"/> security_events	Read and write security events
<input checked="" type="checkbox"/> workflow	Update GitHub Action workflows
<input type="checkbox"/> write:packages	Upload packages to GitHub Package Registry
<input type="checkbox"/> read:packages	Download packages from GitHub Package Registry
<input type="checkbox"/> delete:packages	Delete packages from GitHub Package Registry
<input type="checkbox"/> admin:org	Full control of orgs and teams, read and write org projects
<input type="checkbox"/> write:org	Read and write org and team membership, read and write org projects
<input checked="" type="checkbox"/> read:org	Read org and team membership, read org projects
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> admin:public_key	Full control of user public keys
<input type="checkbox"/> write:public_key	Write user public keys
<input type="checkbox"/> read:public_key	Read user public keys
<input type="checkbox"/> admin:repo_hook	Full control of repository hooks
<input type="checkbox"/> write:repo_hook	Write repository hooks
<input type="checkbox"/> read:repo_hook	Read repository hooks
<input type="checkbox"/> admin:org_hook	Full control of organization hooks
<input checked="" type="checkbox"/> gist	Create gists
<input type="checkbox"/> notifications	Access notifications
<input type="checkbox"/> user	Update ALL user data
<input type="checkbox"/> read:user	Read ALL user profile data
<input type="checkbox"/> user:email	Access user email addresses (read-only)
<input type="checkbox"/> user:follow	Follow and unfollow users

- Click the green **Generate Token** button at the bottom of the screen.
- Copy the token by clicking on the copy button as indicated in the image below. You should store the token somewhere because you will not be able to recover it. If you should forget it,

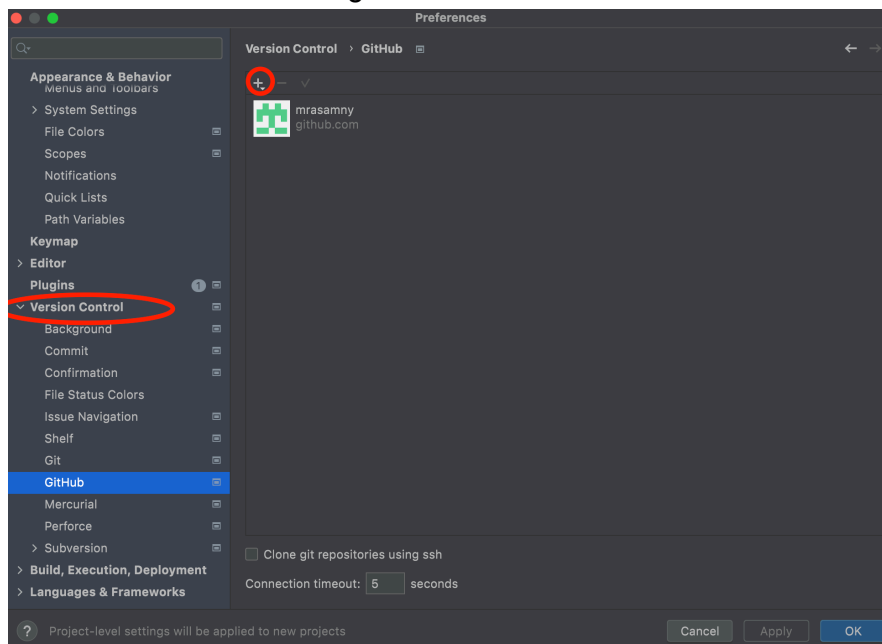
you will need to regenerate a new token.



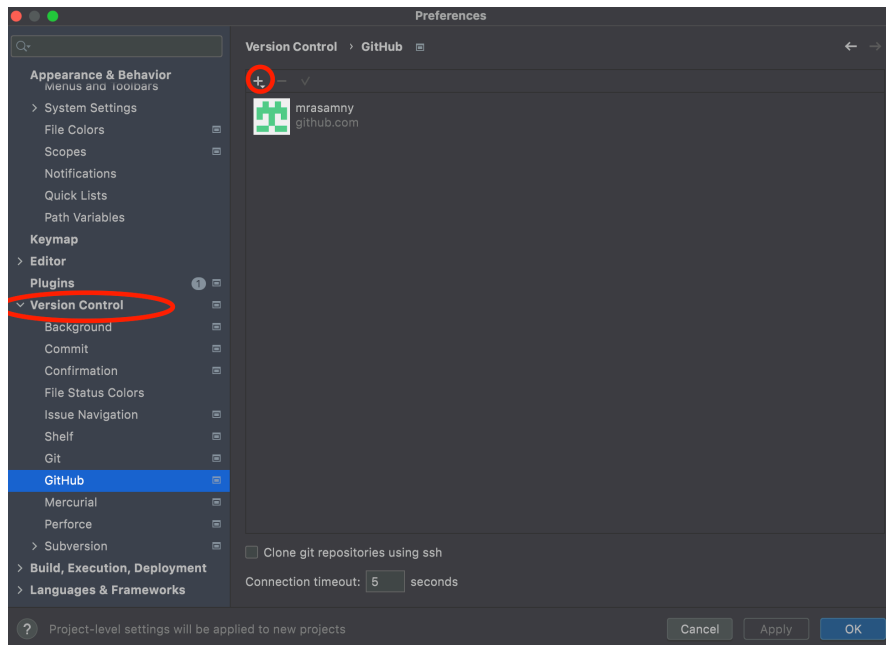
- Now, open up IntelliJ and click on Customize and then All Settings as shown in the image below.



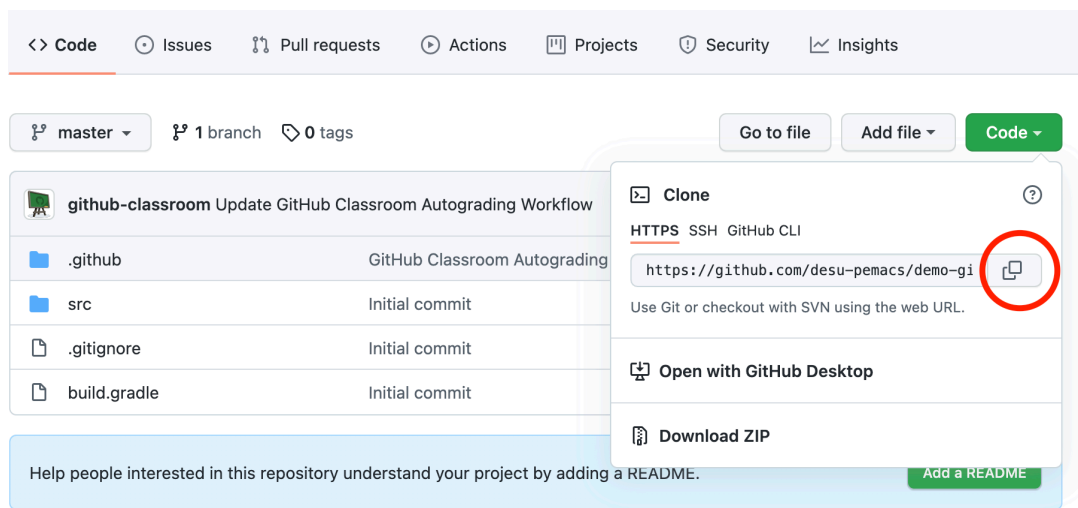
- Expand the Version Control item on the left of the window and select Github. Then click on the + as shown in the image below.



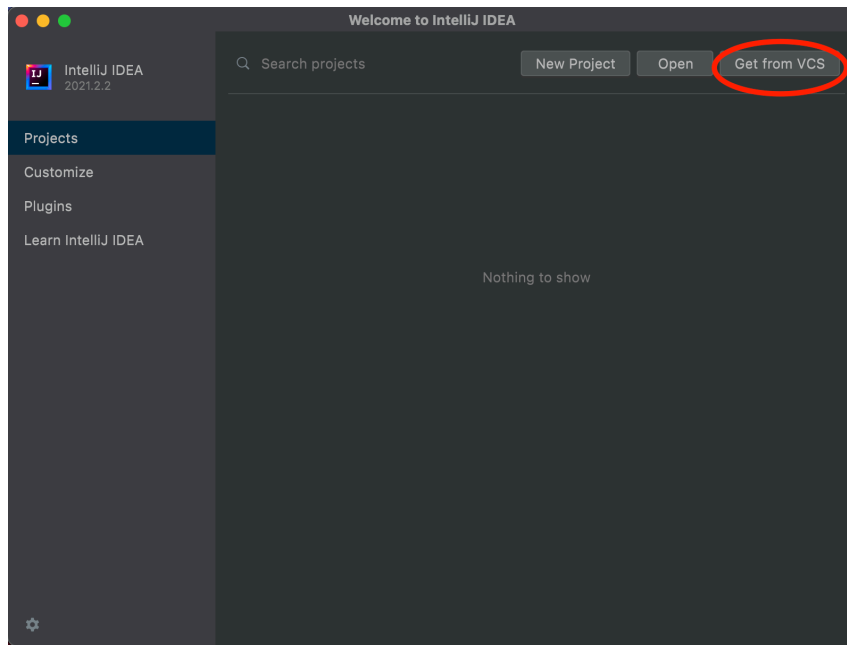
- Select the Login with Token and paste your token in the Token textbox and click the Add Account button as shown in the image below.



15. Now, go back to **YOUR** repo and click the green **Code** button and then copy the URL by clicking on the copy button as indicated in the image below.



16. Open up IntelliJ and use the Get from VCS button to clone the repository.

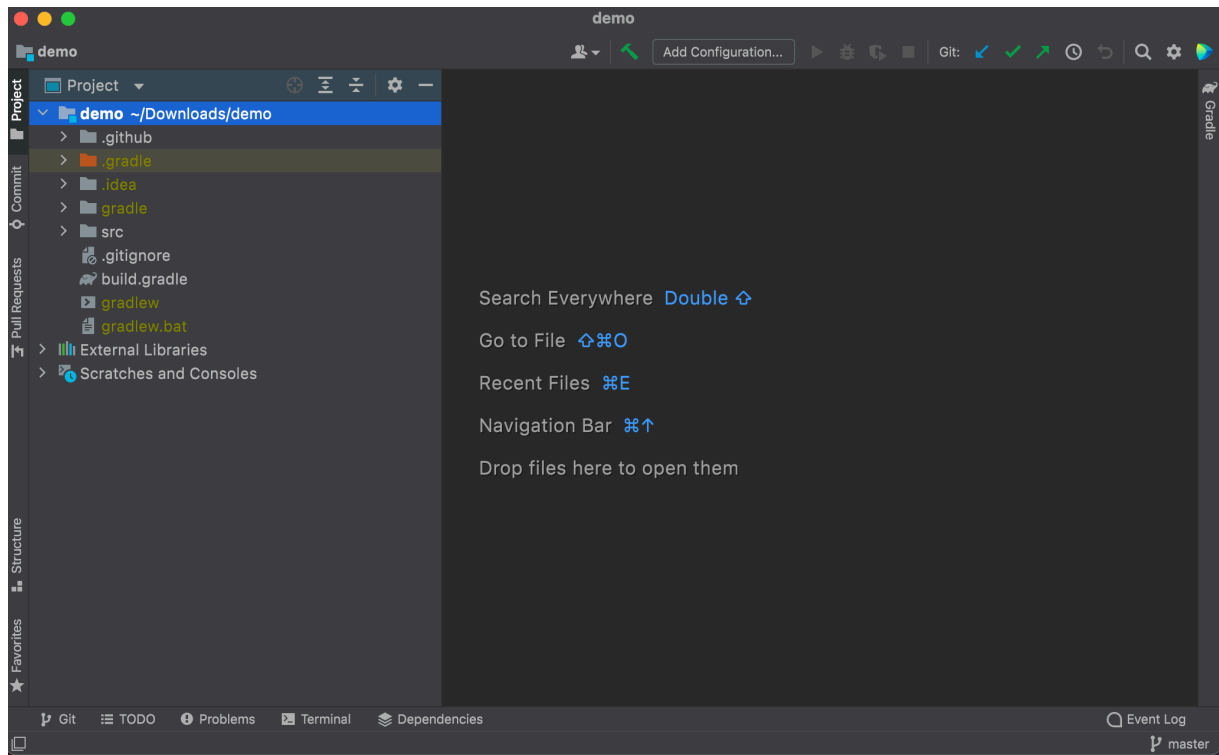


17. Paste the assignment repository URL in the URL field and make sure to select the directory in which the assignment will sit. IntelliJ will add the name of repo to the Directory path. If it does not, please add the name of the assignment directory. For example, if the directory is [C:\Users\JohnSmith\Documents](#), make sure to add the name of the assignment. In my case, this should be changed to [C:\Users\JohnSmith\Documents\recitation0](#)

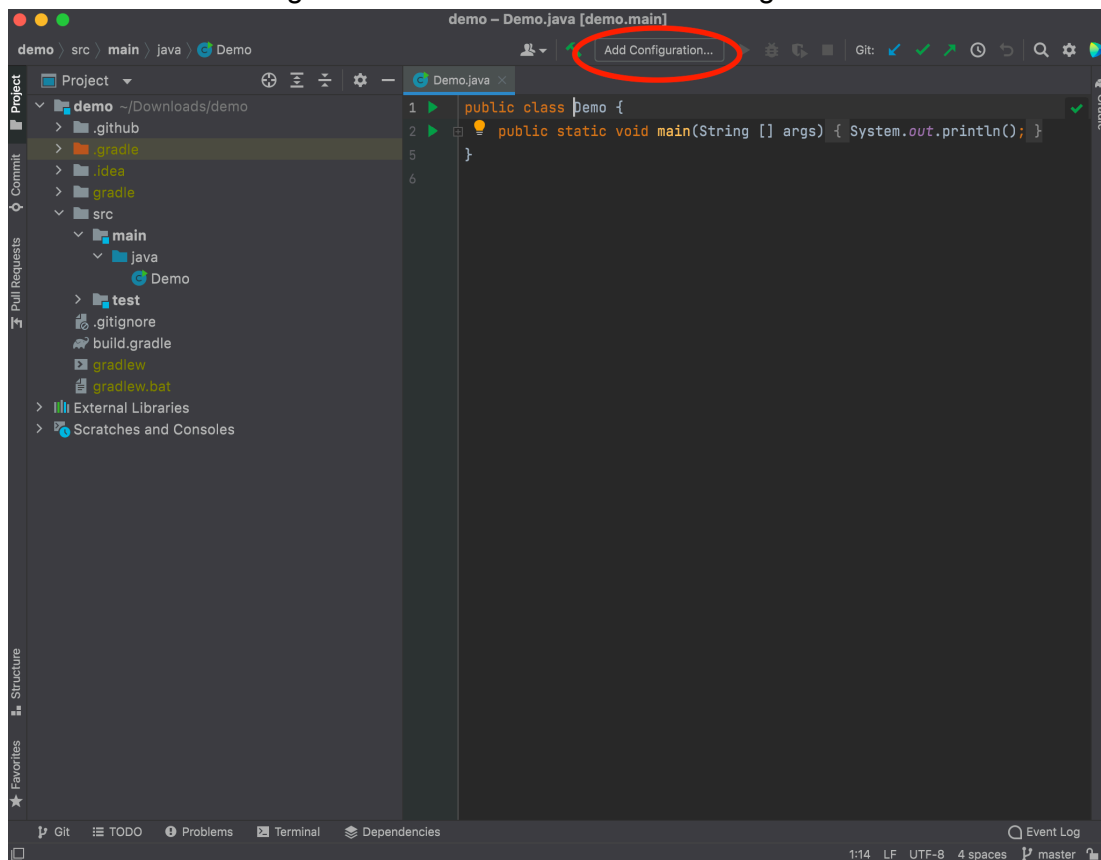
Click the link to download and install Git, if asked.

WARNING: If you do not add a folder name, IntelliJ will put all the project files in the Documents folder.

18. Press the Clone button. IntelliJ will create the folder for you and place the assignment code in the demo-github-classroom-rasamny folder under the Documents folder.
19. Your workspace should now look like the image shown below.

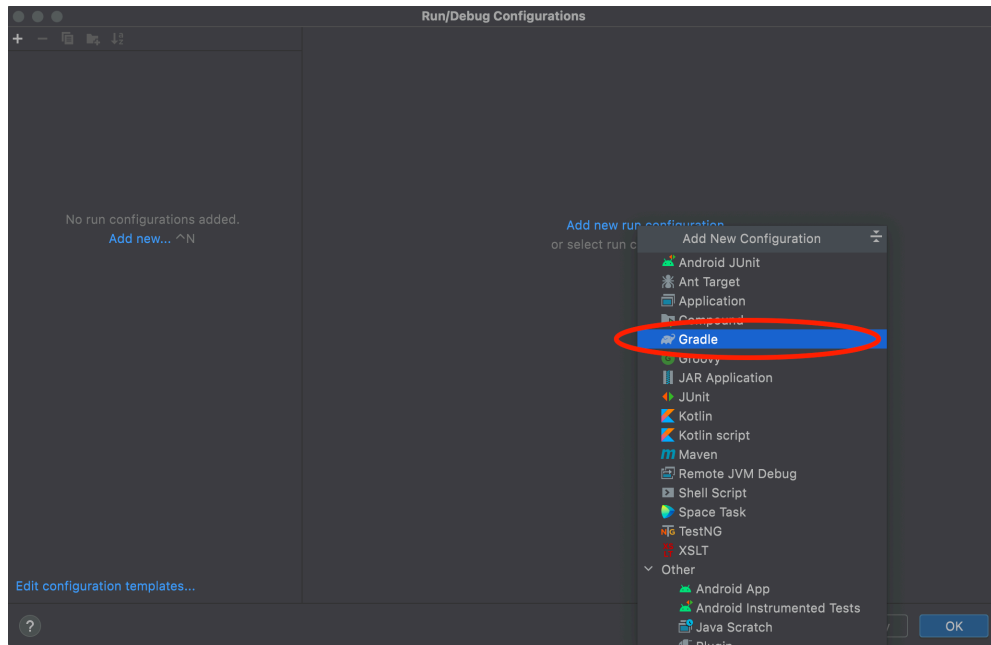


20. Now, to run and test the provided Java code, you will need to create a run configuration. Click on the run configuration button as shown in the image below.

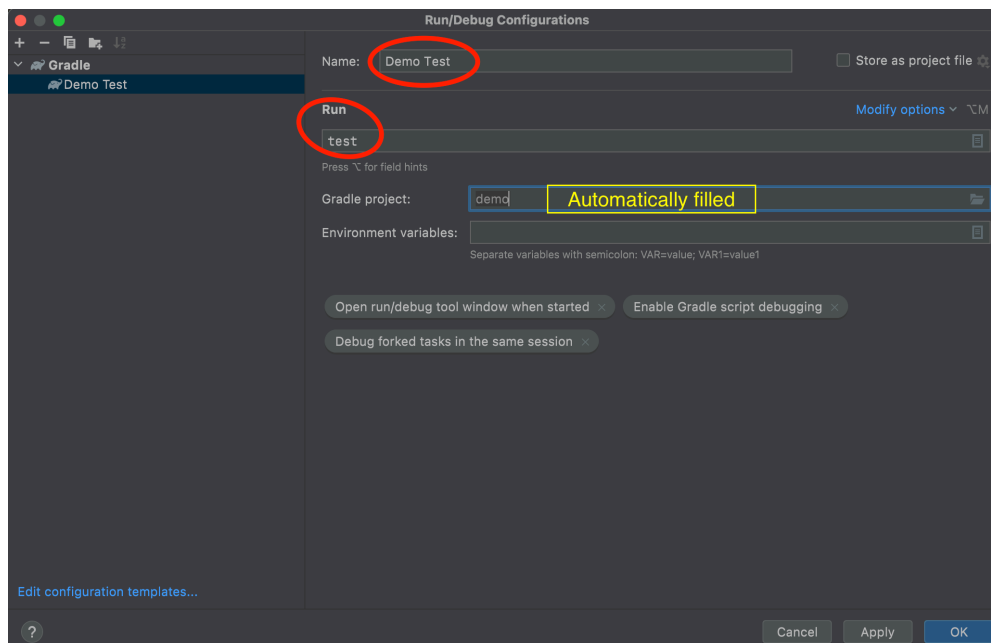


21. Select Add New Configuration and then select Gradle from the menu as shown in the

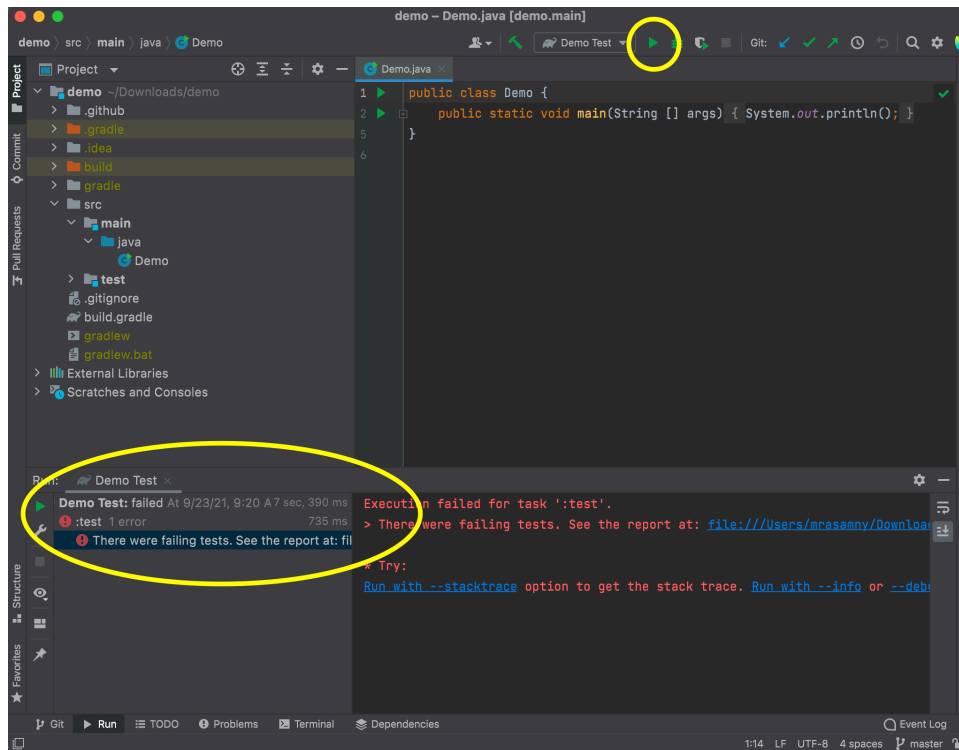
image below.



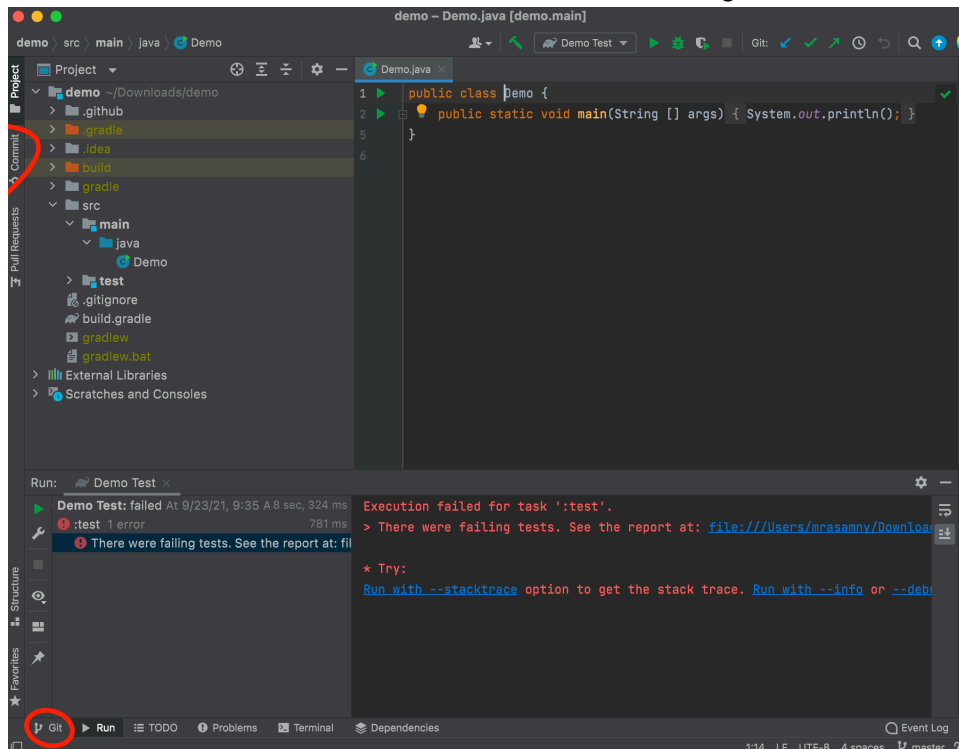
22. Give the configuration a name, for example **Demo Test**, and type **test** in the run textbox then click OK to complete the run configuration.



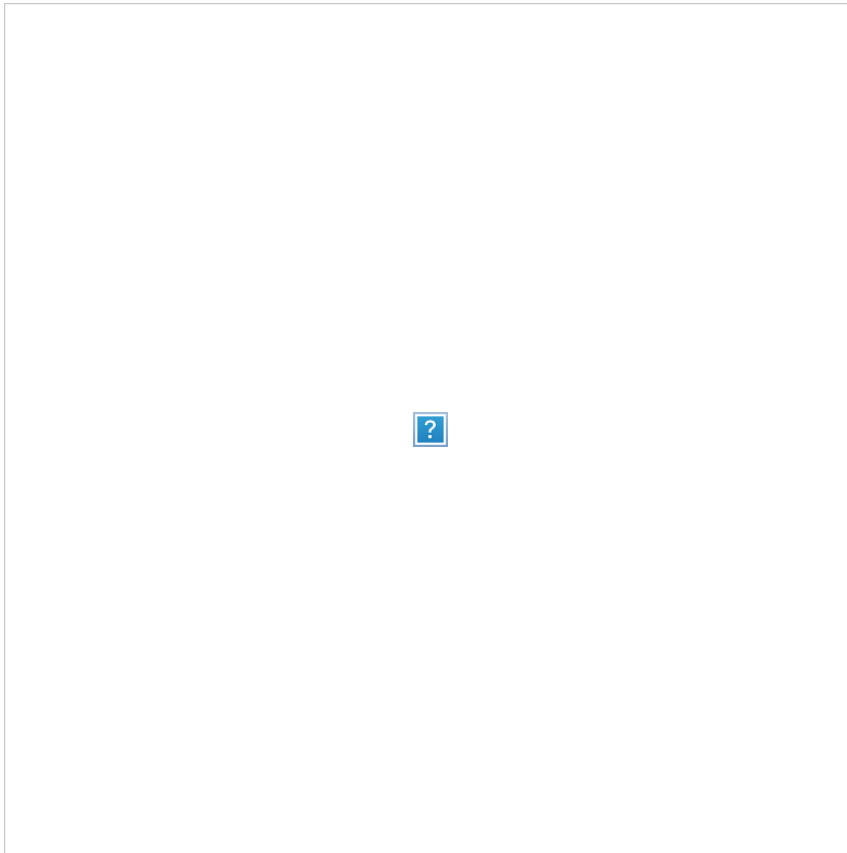
23. Now press the green play button and notice that the test will fail.



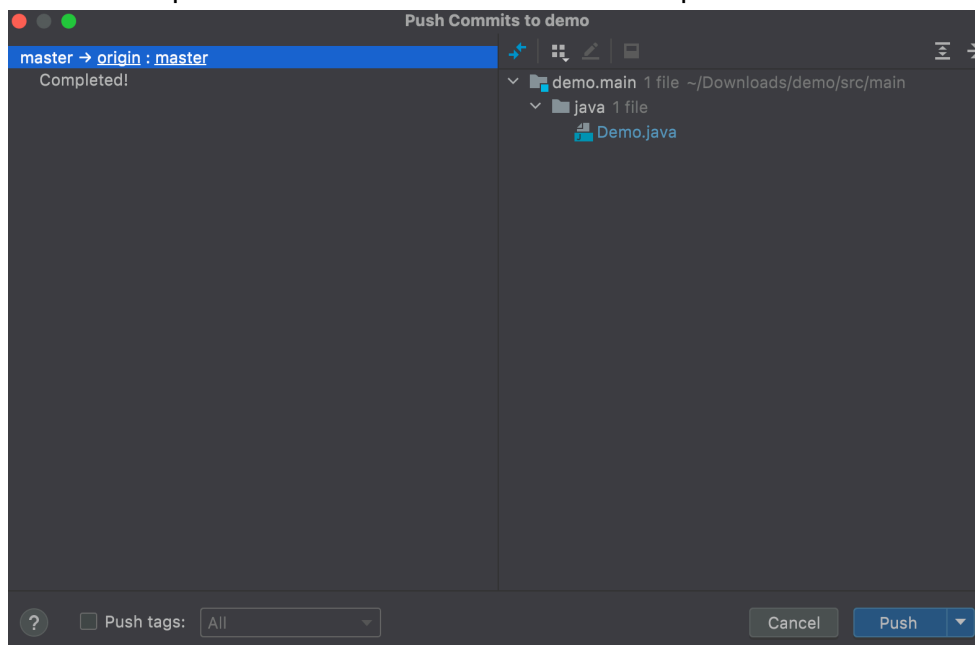
24. Add "Hello World!" so that the following line of code reads `System.out.println("Hello World");` and then run the test again by clicking on the green play button. You should now see that the test succeeds!
25. You now need to commit the changes you made and push the changes to your repository on Github. Select the Commit tab as shown in the image below.



26. Select all the files that have changed and type a message in the text box as shown in the image, the message should summarize the work done at that point, and click commit and push button.



27. Click on the push button in the next window to complete the submission.



Congratulations! You now have completed your first Java

assignment!