

Github Classroom and IntelliJ

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

1. Head over to <https://github.com> and sign up for an account. Please USE YOUR DESU EMAIL ACCOUNT when signing up for the account.
2. If you do not have a recent version of Java, please install an OpenJDK version, which you can download from JDK Builds from Oracle (java.net). Please select and install the “Ready for use” JDK. A good one to use is jdk.java.net
3. 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.
4. You will next need to accept the assignment in Github classroom and link it to your Github account. Go to your Blackboard course page and click on the assignment link under the Skill Builder 0 on the Skill Builder page
5. Find your name/email in the list and select it. IT IS IMPORTANT THAT YOU SELECT YOUR NAME FROM THE LIST!!!!
6. Accept the assignment and wait a minute before refreshing the page. You should now have a link to your own private repository that contains the assignment.
7. Click the link shown on the page. Should you need the link in the future, simply click on the exercise link provided above to come back to this page.



You're ready to go!

You accepted the assignment, **Demo Github Classroom**.

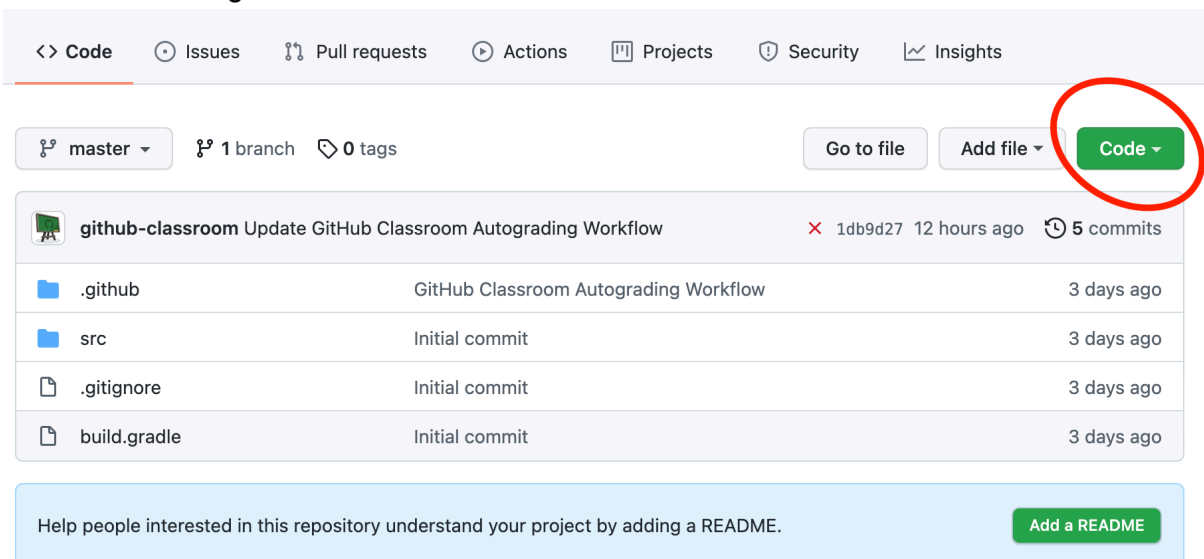
Your assignment repository has been created:

<https://github.com/desu-pemacs/demo-github-classroom-rasamny>

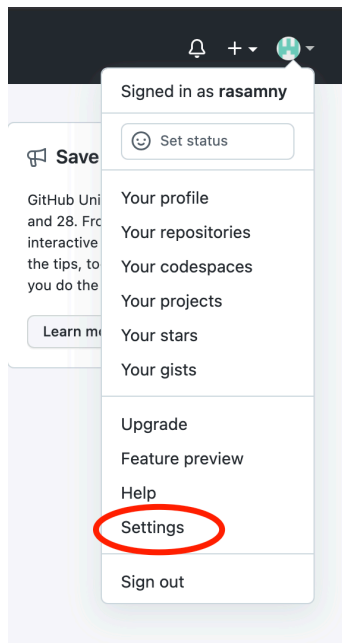
We've configured the repository associated with this assignment ([update](#)).

Your assignment is due by **Sep 22, 2021, 23:59 EDT**

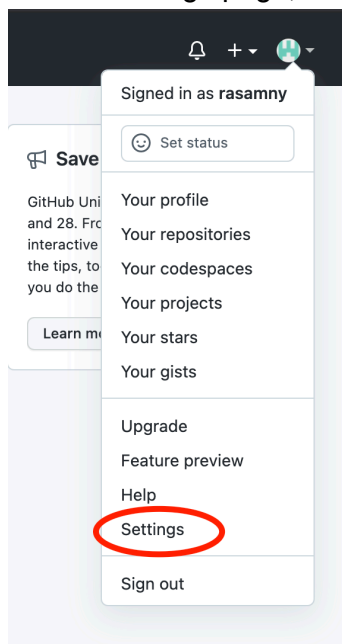
8. You should now see your private repository with a green Code button on the top right as shown in the image below.



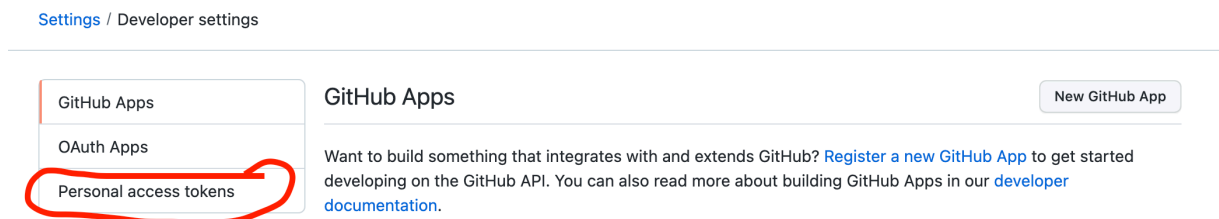
9. You will now need to create a Github authentication token to be used in IntelliJ. Click on your avatar on the top right of the screen. You should see a drop-down menu as shown in the image below. Select Settings.



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



11. On the next page, select the Personal Access Tokens as shown in the image below.



12. Then click on the Generate new token button on the top right as shown in the image below.

GitHub Apps

OAuth Apps

Personal access tokens

Personal access tokens

Generate new token Revoke all

Tokens you have generated that can be used to access the [GitHub API](#).

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](#).

13. Enter the word IntelliJ 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 December 31, 2021. This will make your token valid for the entire course.

GitHub Apps

OAuth Apps

Personal access tokens

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

What is this token for?

Expiration

Custom... 12/31/2021

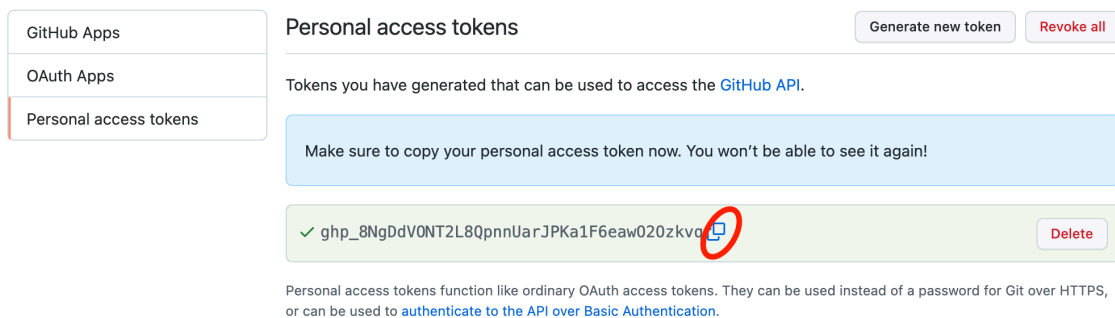
Select scopes

Scopes define the access for personal tokens. [Read more about OAuth scopes.](#)

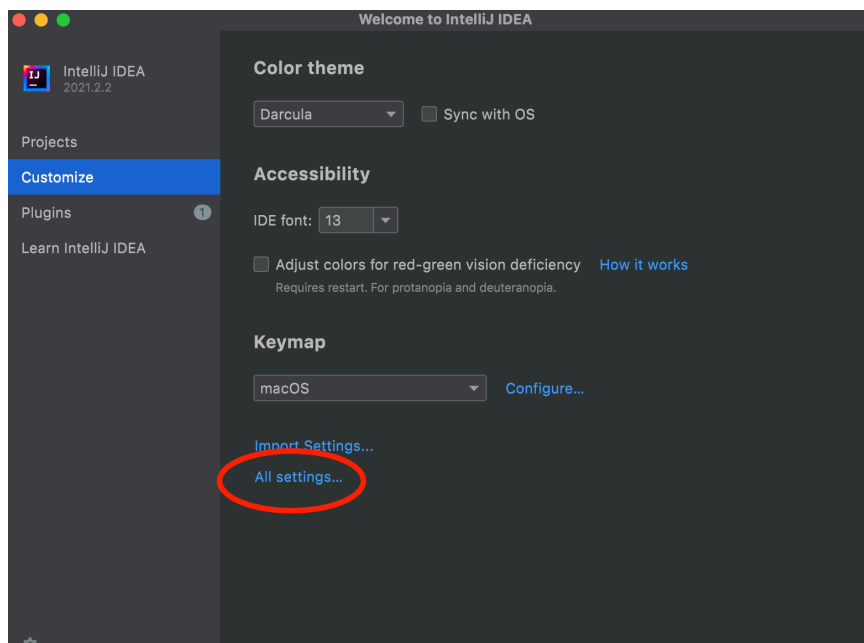
<input checked="" type="checkbox"/> repo	Full control of private repositories
<input checked="" type="checkbox"/> repo:status	Access commit status
<input checked="" type="checkbox"/> repo_deployment	Access deployment status
<input checked="" type="checkbox"/> public_repo	Access public repositories
<input 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

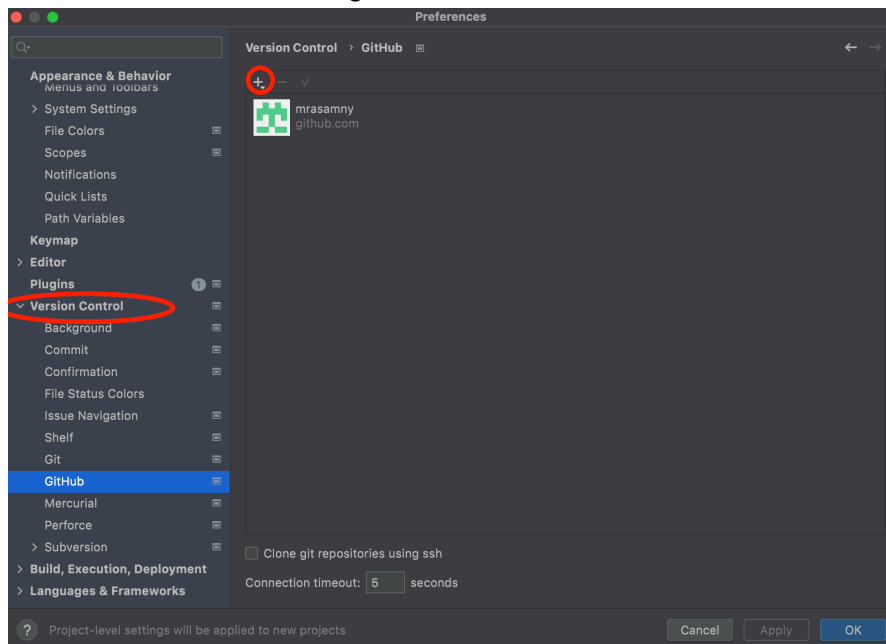
14. Click the green Generate Token button at the bottom of the screen.
15. Copy the token by clicking on the copy button as indicated in the image below. You should store the token somewhere because you will not be able to recover it. If you should forget it, you will need to regenerate a new token.



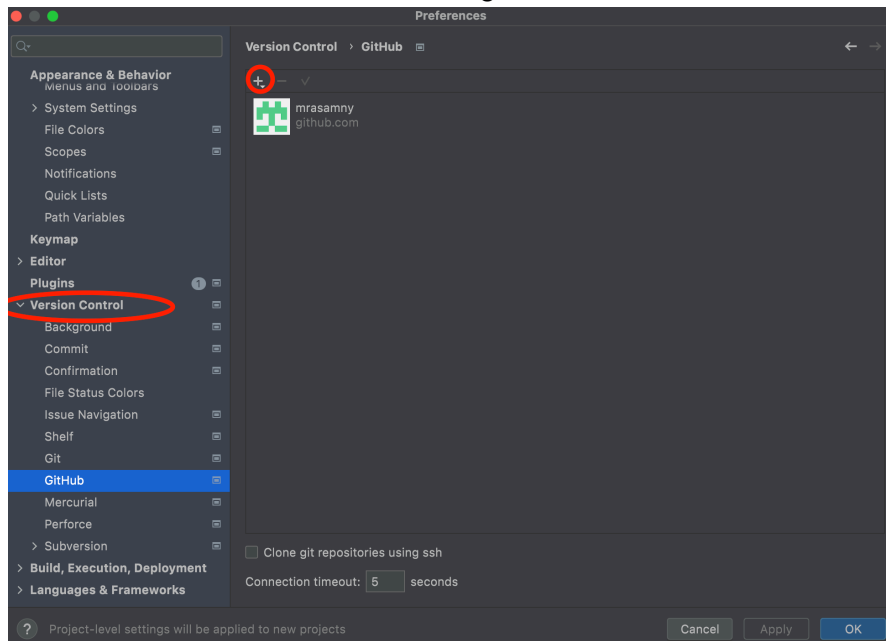
16. Now, open up IntelliJ and click on Customize and then All Settings as shown in the image below.



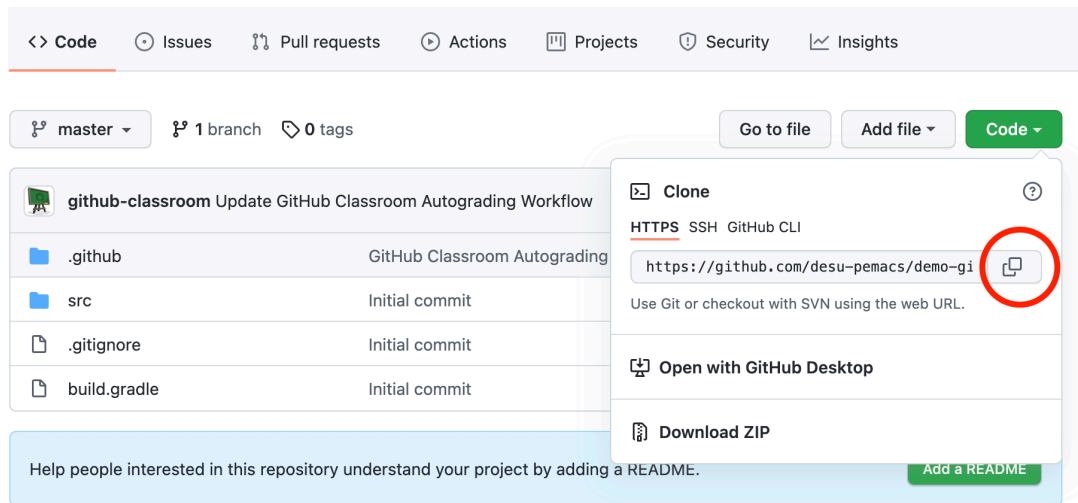
17. Expand the Version Control item on the left of the window and select Github. Then click on the + as shown in the image below.



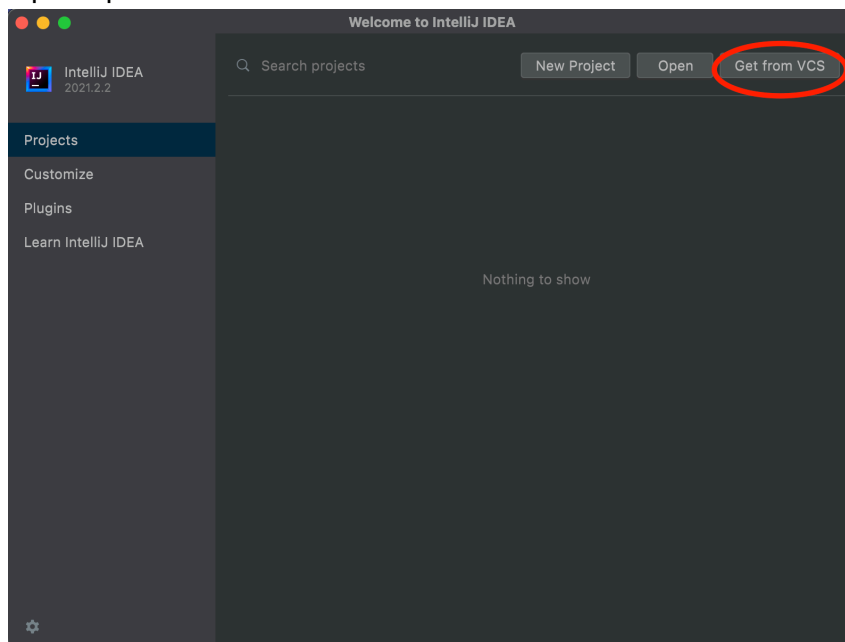
18. Select the Login with Token and paste your token in the Token textbox and click the Add Account button as shown in the image below.



19. Now, go back to the assignment you accepted and click on the link so that you are in the repo for Demo Github Classroom.
20. Click the green code button and then copy the URL by clicking on the copy button as indicated in the image below.



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

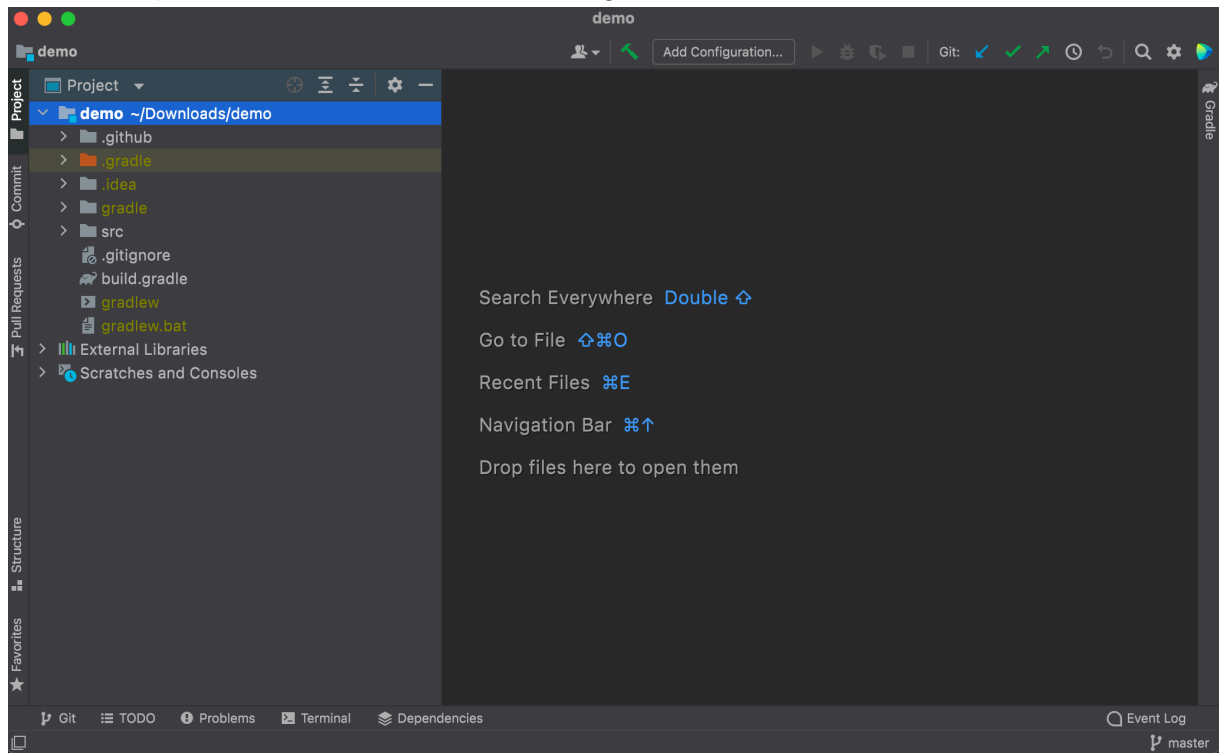


22. Paste the assignment repository URL in the URL field and make sure to select the directory in which the assignment will sit. IntelliJ will add the name of repo to the Directory path. If it does not, please add the name of the assignment directory. For example, if the directory is [C:\Users\JohnSmith\Documents](#),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

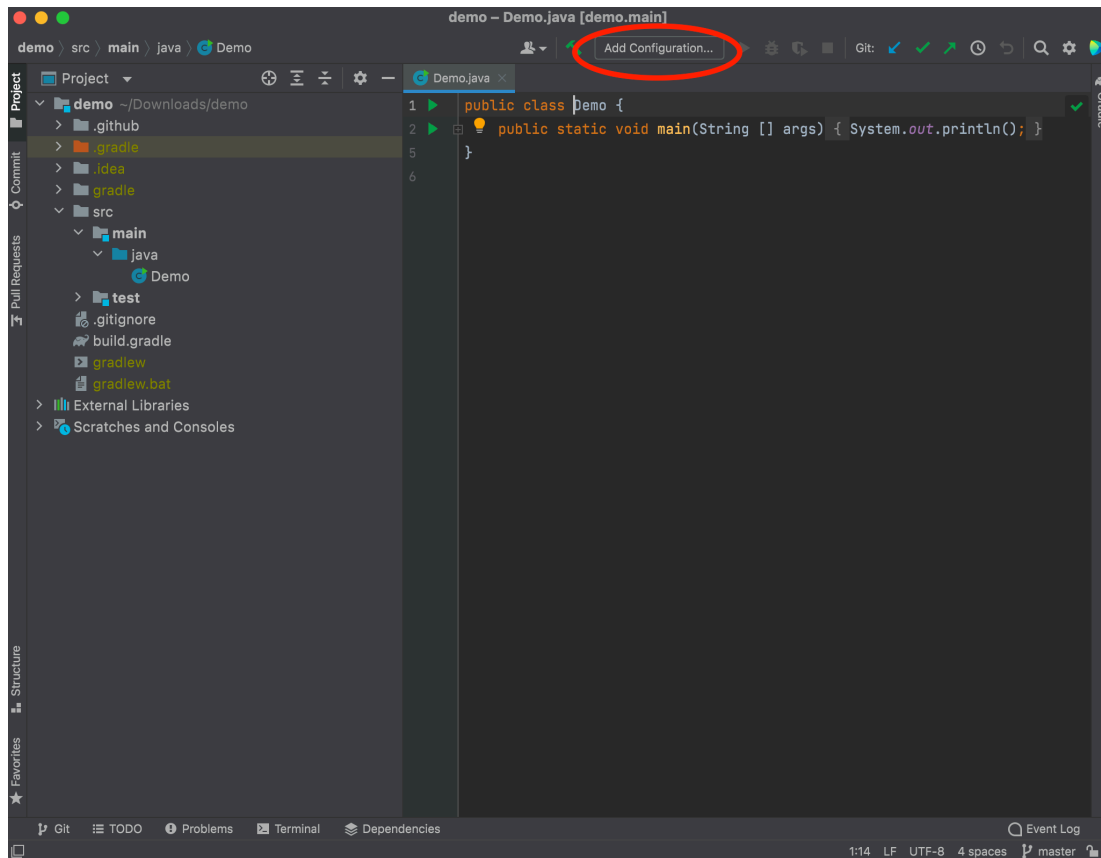
Click the link to download and install Git, if asked.

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

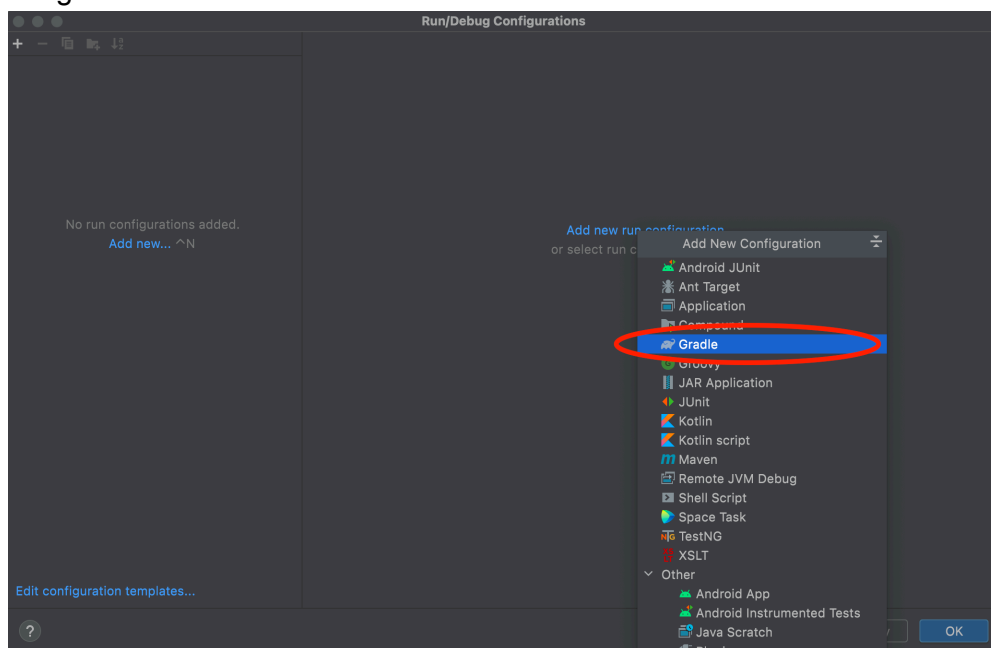
23. Press the Clone button. IntelliJ will create the folder for you and place the assignment code in the demo-github-classroom-rasamny folder under the Documents folder.
24. Your workspace should now look like the image shown below.



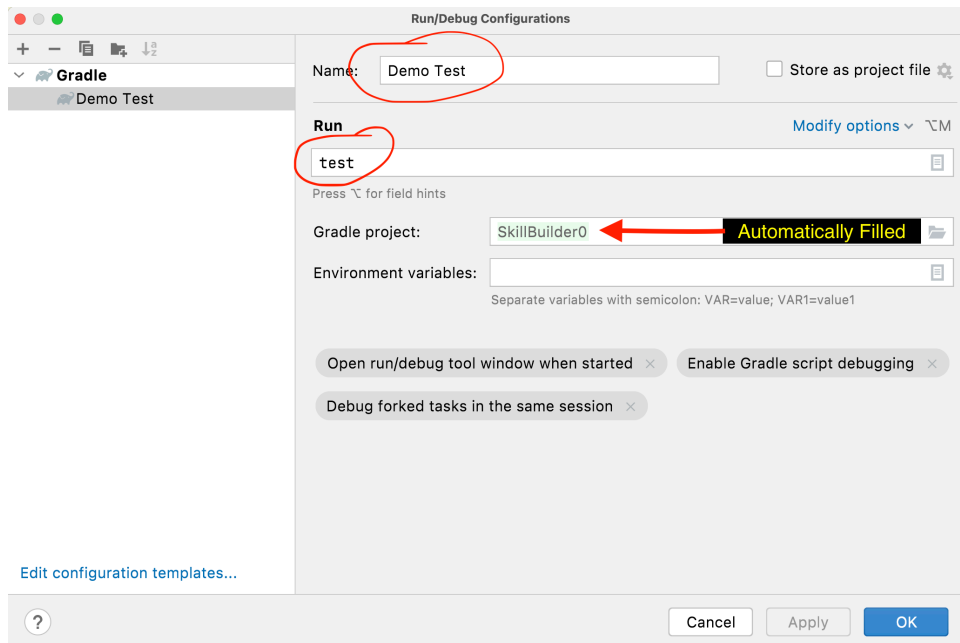
25. Now, to run and test the provided Java code, you will need to create a run configuration. Click on the run configuration button as shown in the image below.



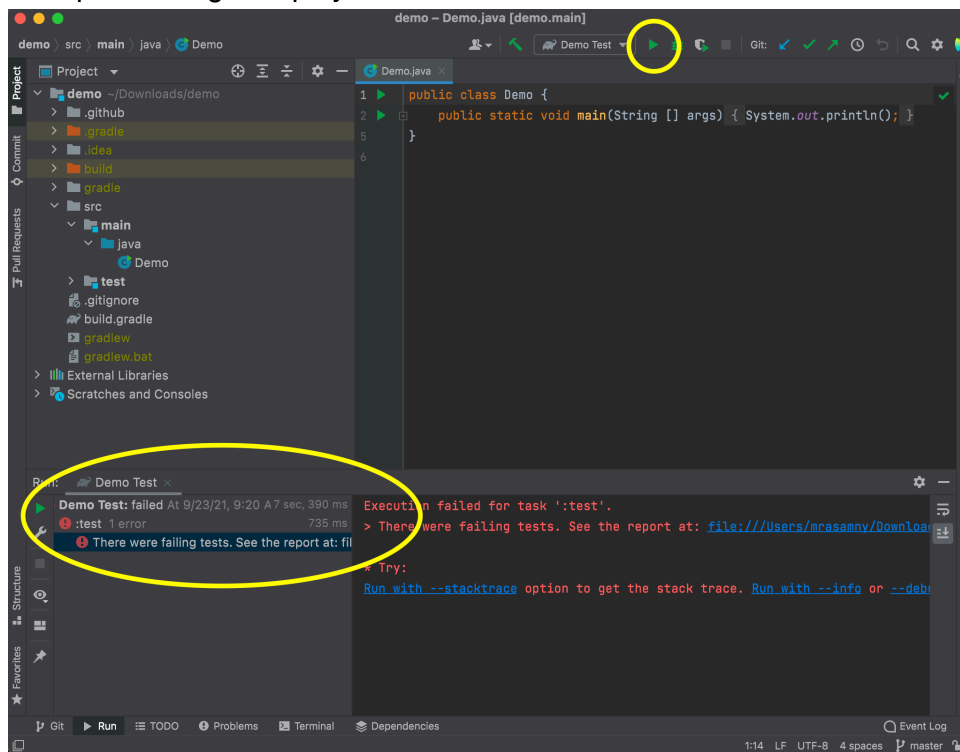
26. Select Add New Configuration and then select Gradle from the menu as shown in the image below.



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



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

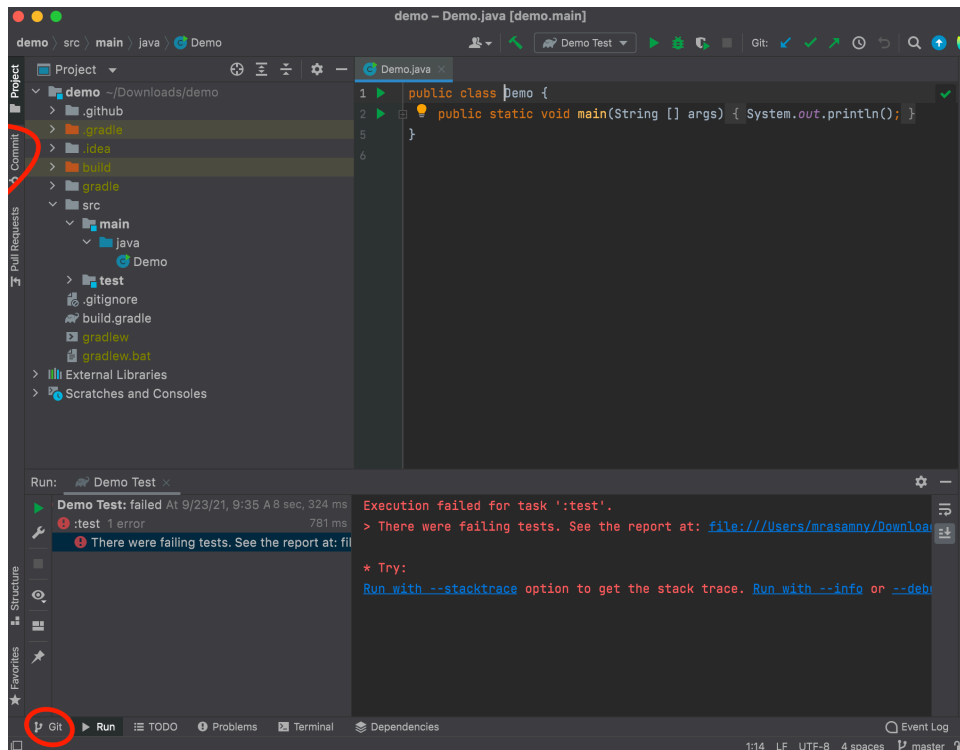


29. Add "Hello World!" so that the following line of code reads

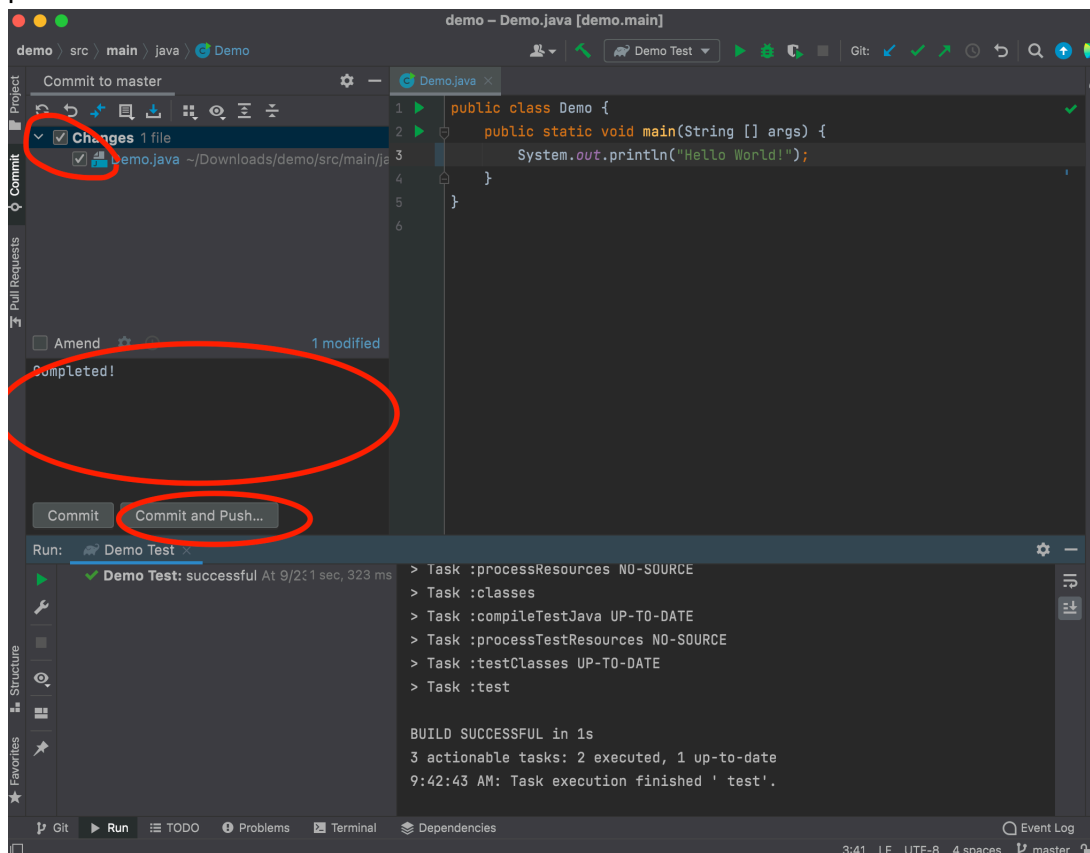
```
System.out.println("Hello World");
```

and then run the test again by clicking on the green play button. You should now see that the test succeeds!

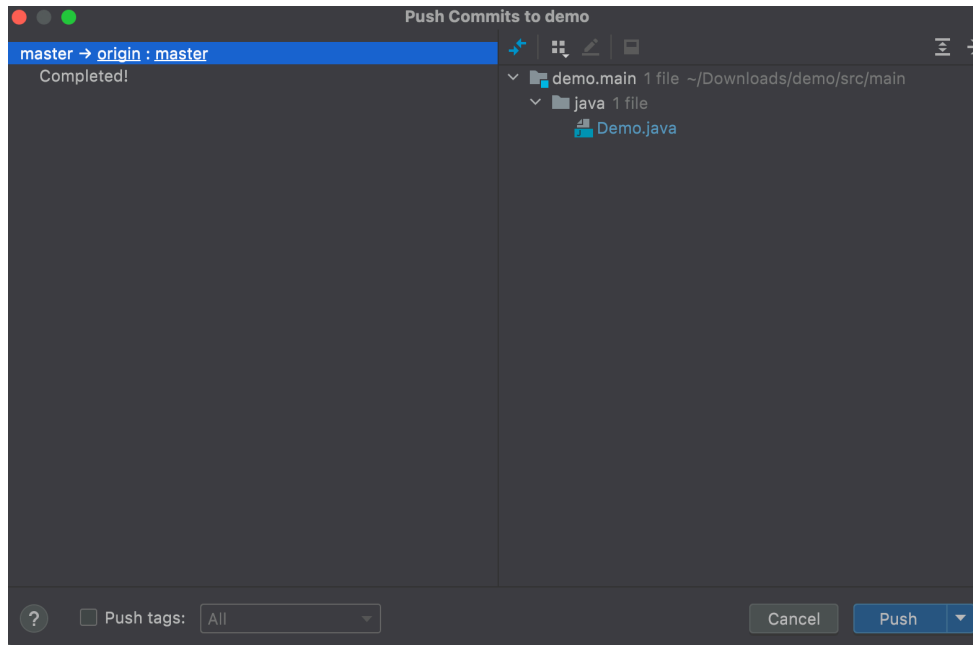
30. You now need to commit the changes you made and push the changes to your repository on Github. Select the Commit tab as shown in the image below.



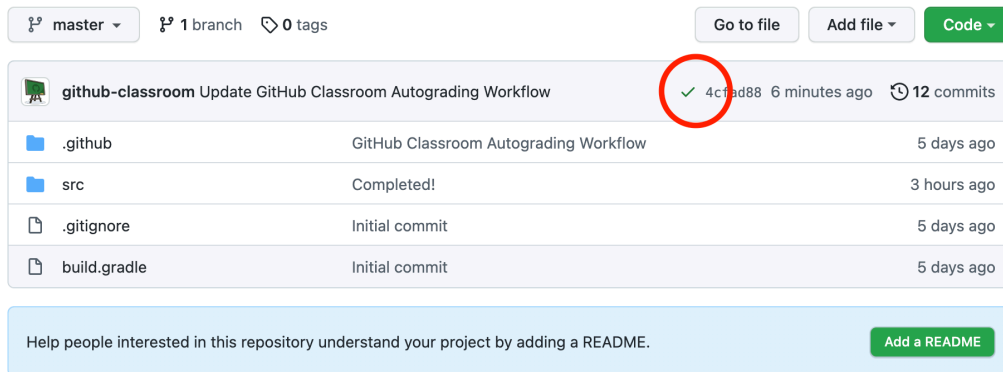
31. Select all the files that have changed and type a message in the text box as shown in the image, the message should summarize the work done at that point, and click commit and push button.



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



33. Go back to your repo on Github and make sure that you see a check mark indicating that everything passed. See image below.



Congratulations! You now have completed your first Java assignment!