

Getting Started with GitHub Classrooms:

- Adapted from: <https://youtu.be/jXpT8eOzzCM?si=JubO6Z-c2YV8Sdx>
- GitHub Classroom: How students complete assignments:
https://youtu.be/ObaFRGp_Eko?si=UAnsumGy206MVvbs

GitHub Classroom Setup:

For this assignment, you will use GitHub Classroom to create a private code repository to track code changes and submit your assignment. Open this Lab0 link to accept the assignment and create a private repository for your assignment in GitHub classroom:

<https://classroom.github.com/a/kUto0W2q>

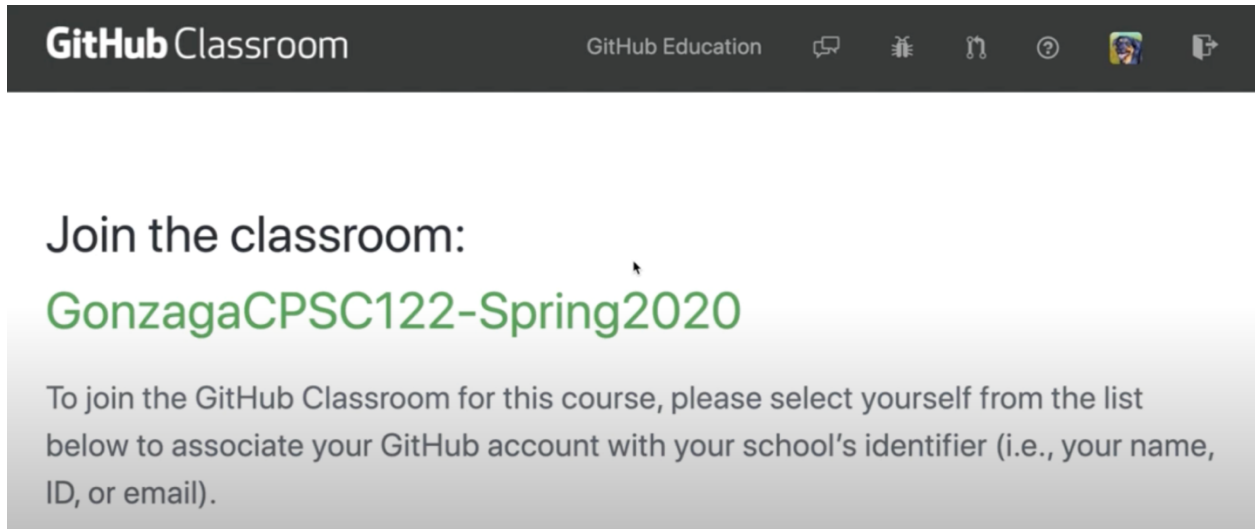
Your repo, for example, will be named <https://github.com/OOP-NYUAD/lab-0-yourusername> (where yourusername is your GitHub username). I highly recommend committing/pushing regularly so your work is always backed up. We will grade your most recent commit even if that commit is after the due date (your work will be marked late if this is the case)

Accepting the assignment:

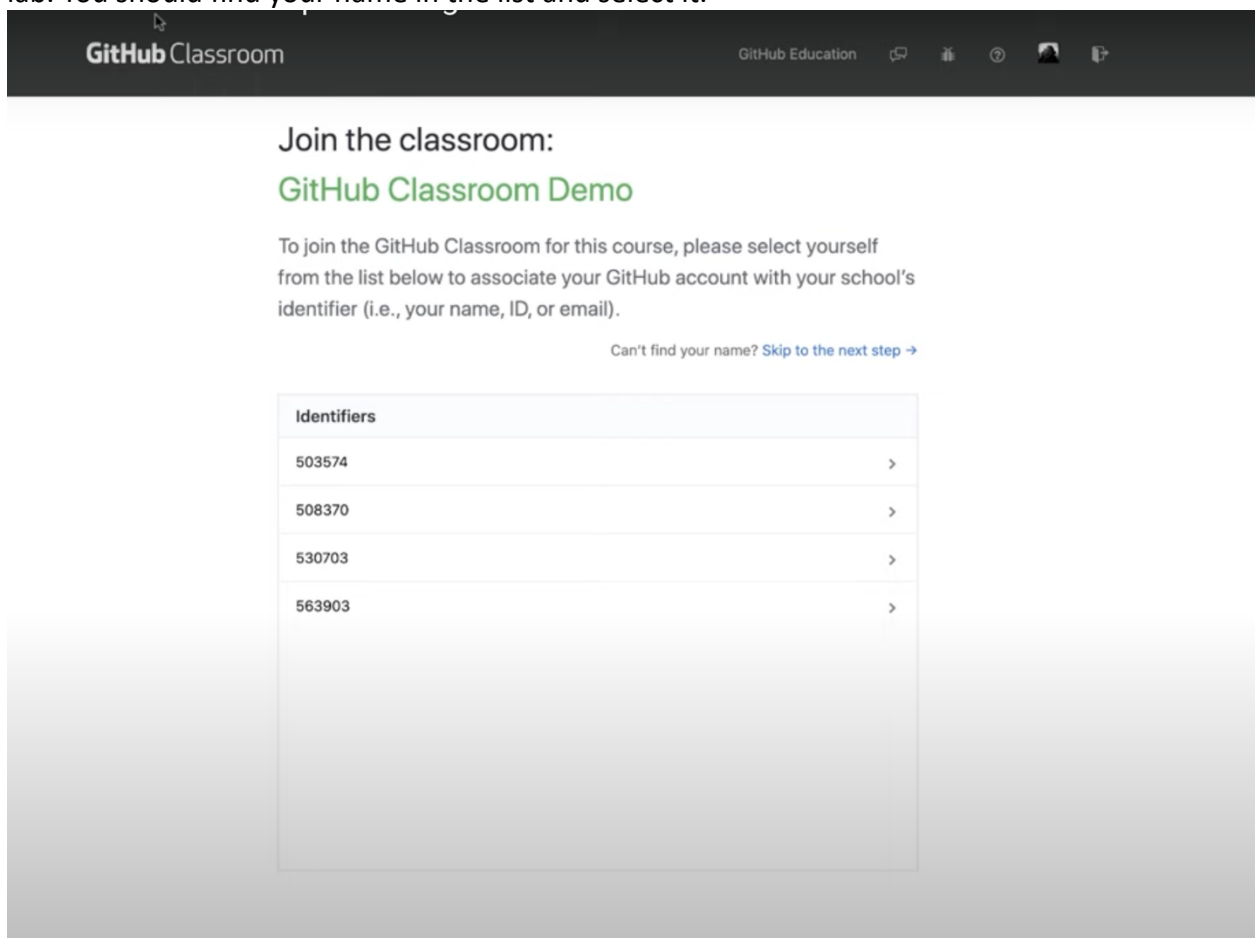
1. Once you have the assignment link, open the link in the browser:
2. If you are not registered in GitHub Classrooms, you will be asked to create an account.

3. Once you are registered, you will be asked to join the classroom assignment as per the example image below:

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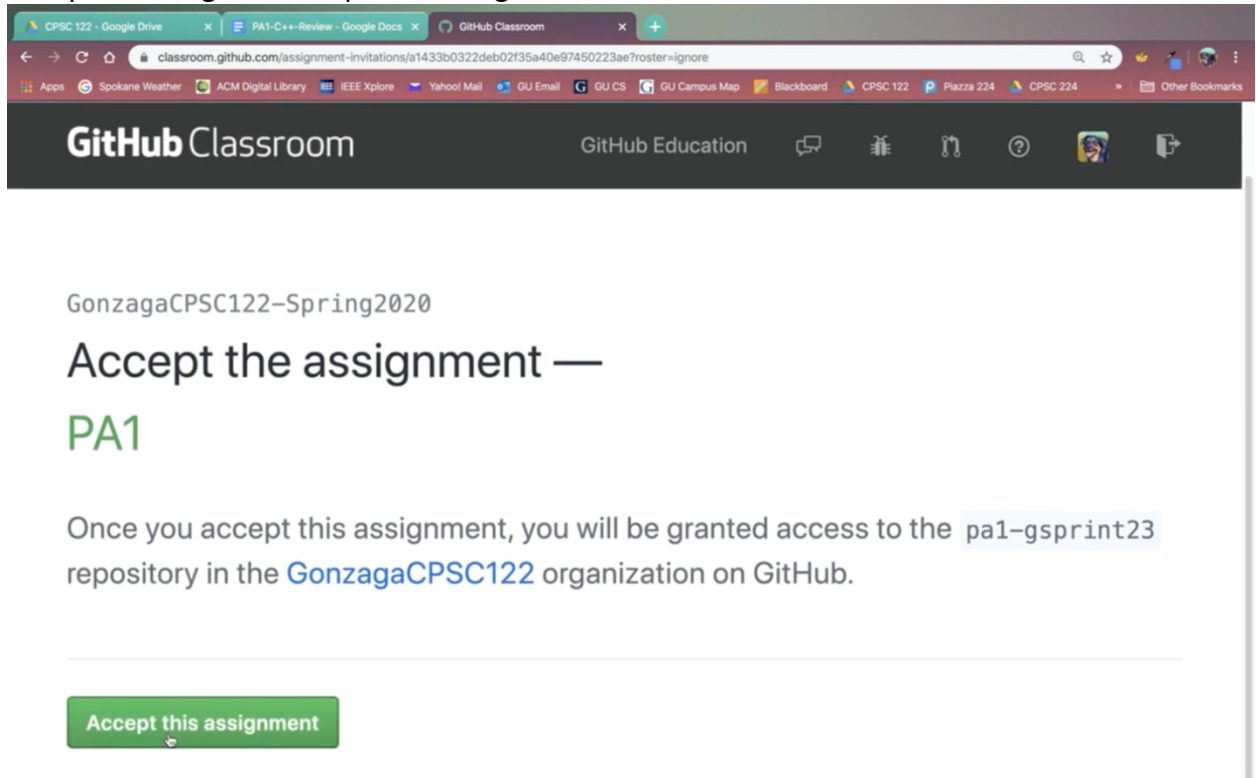
4. Below this screen, you may find a list of names, of the students registered in the class lab. You should find your name in the list and select it.



- If you cannot find your name, click on “Skip to the next step on the bottom right part of the screen”

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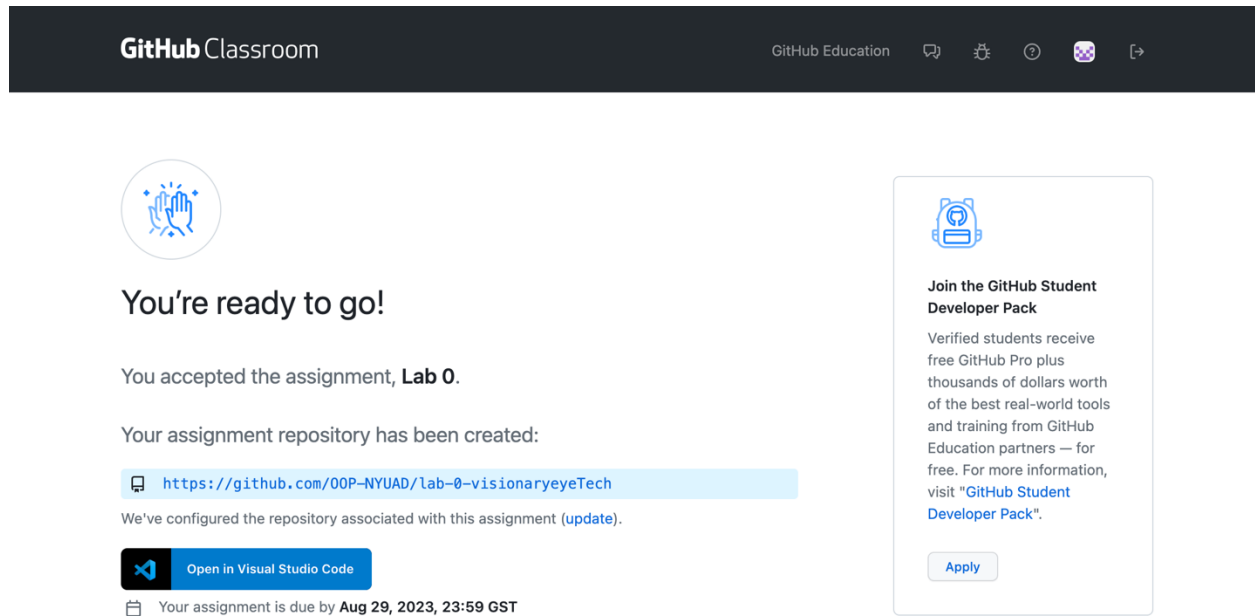
5. Once you click on your name, your name will be associated to your GitHub classroom username.
6. Accept the assignment as per the image below:



7. It might take few minutes to setup the assignment depending on how the instructor set the assignment.
8. Once GitHub is done setting the assignment, you will find a link to your repository as per the image below:

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Opening and Editing Code in the assignment:



The screenshot shows the GitHub Classroom interface. At the top, there's a dark header with the "GitHub Classroom" logo on the left and "GitHub Education" with several icons on the right. The main content area has a circular icon with a hand and a lightbulb. Below it, the text reads "You're ready to go!". Further down, it says "You accepted the assignment, **Lab 0**." and "Your assignment repository has been created:". A blue highlighted link is shown: <https://github.com/OOP-NYUAD/lab-0-visionaryeyeTech>. Below the link, it says "We've configured the repository associated with this assignment (update).". There is a button that says "Open in Visual Studio Code". At the bottom left, a calendar icon indicates "Your assignment is due by **Aug 29, 2023, 23:59 GST**". On the right side, there is a sidebar with a "Join the GitHub Student Developer Pack" section, which includes text about verified students receiving free GitHub Pro and a link to "GitHub Student Developer Pack". An "Apply" button is at the bottom of this sidebar.

In the image, you can notice that the “visionaryeyeTech” part of the assignment link in blue is the name of your username. It is important to note that the repository in the blue link does not live in your personal repository, but rather in the classroom repository that the instructor has created and linked to GitHub Classrooms. Thus “OOP-NYUAD” is the name of the organization that GitHub classroom is linked to.

9. Click on the blue highlighted link to access the assignment:

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lab-0-visionaryeyeTech (Private)
generated from OOP-NYUAD/Lab-0-Templates

main 2 branches 0 tags

Go to file Add file <> Code

github-classroom[bot] Add assignment deadline url c5cb2bb 2 days ago 5 commits

File	Commit	Time
.github	GitHub Classroom Feedback	2 days ago
README.md	Add assignment deadline url	2 days ago
lab0exercise1.cpp	Initial commit	2 days ago
lab0exercise2.cpp	Initial commit	2 days ago
lab0exercise3.cpp	Initial commit	2 days ago
lab0exercise4.cpp	Initial commit	2 days ago
lab0exercise5.cpp	Initial commit	2 days ago
lab0exercise6.cpp	Initial commit	2 days ago
lab0exercise7.cpp	Initial commit	2 days ago

README.md

Review the assignment due date Open in Visual Studio Code

About lab-0-visionaryeyeTech created by GitHub Classroom

- Readme
- Activity
- 0 stars
- 2 watching
- 0 forks

Releases

No releases published
[Create a new release](#)

Packages

No packages published
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Languages

C++ 100.0%

You can see that in this assignment, exercises in the dashboard.

10. Click on the “Code” green button, and select workspaced

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generated from OOP-NYUAD/Lab-0-Templates

main 2 branches 0 tags

Go to file Add file <> Code

github-classroom[bot] Add assignment deadline url

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.github	GitHub Classroom Feedback	2 days ago
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lab0exercise5.cpp	Initial commit	2 days ago
lab0exercise6.cpp	Initial commit	2 days ago
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11. Click on the + sign in codespaces

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The screenshot shows a GitHub repository page for 'lab-0-visionaryeyeTech' (Private). It indicates it was generated from 'OOP-NYUAD/Lab-0-Templates'. The repository has 2 branches and 0 tags. A file list on the left shows files like '.github', 'README.md', and 'lab0exercise1.cpp' through 'lab0exercise7.cpp'. A 'Code' button is visible. A 'Codespaces' panel is open, showing 'On current branch' with a 'verbose sniffle' commit on the 'main' branch. A tooltip says 'Create a codespace on main'. The README.md content is partially visible at the bottom.

12. A new tab will open where the template coding exercises will be copied to a virtual workspace

The screenshot shows the VS Code interface within a GitHub Codespace. The Explorer panel on the left shows the file structure of the 'LAB-0-VISIONARYEYETECH' workspace. The main editor shows the 'lab0exercise1.cpp' file with C++ code. The terminal at the bottom displays the welcome message for Codespaces and the current directory path: '@visionaryeyeTech - /workspaces/lab-0-visionaryeyeTech (main) \$'. A notification at the bottom right prompts to install the 'C/C++ Extension Pack'.

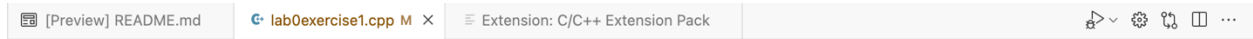
If this is the first time for you using GitHub CodeSpaces, you will be prompted, and may need to install the recommended extension so that your code can run properly. In our case it will be the

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extension for Microsoft C++ language. In the image above, it will show in the bottom right part of the screen.

13. You can start editing your assignment in the white user interface, and access the exercise files in the left grey tab.

14. You can run and debug your code by clicking on the triangle in the top right section of the user interface



Committing the assignment to GitHub:

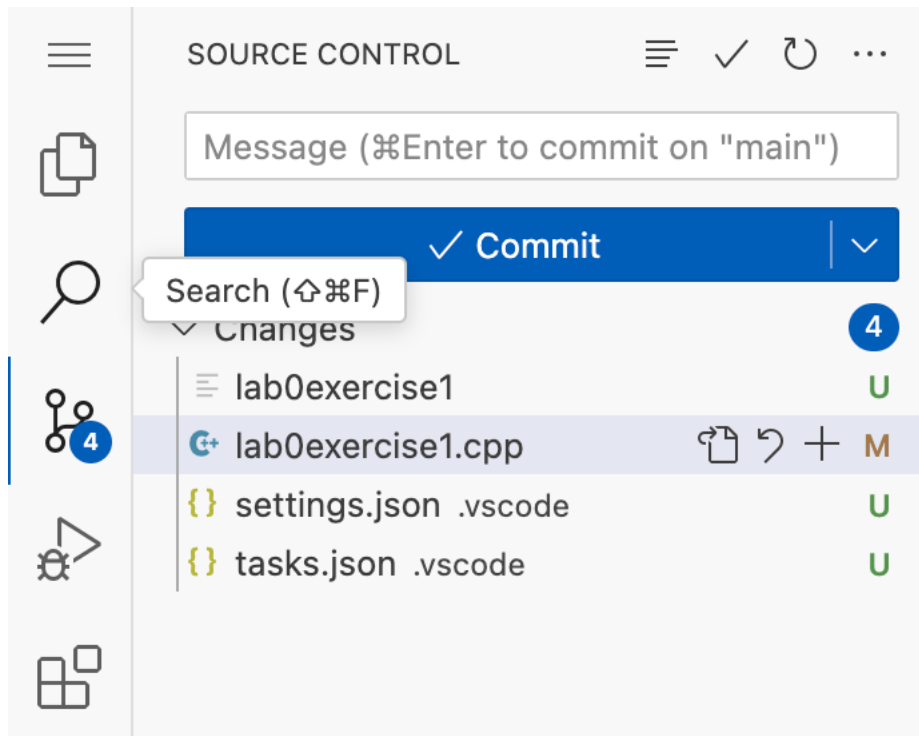
15. Once you complete a portion of the assignment, or once you complete the whole assignment, you will need to commit the changes to the assignment repository so that it can be graded accordingly. On the extreme left of the user interface, you can see a list of icons as per the below, Click on the commit icon highlighted in blue.



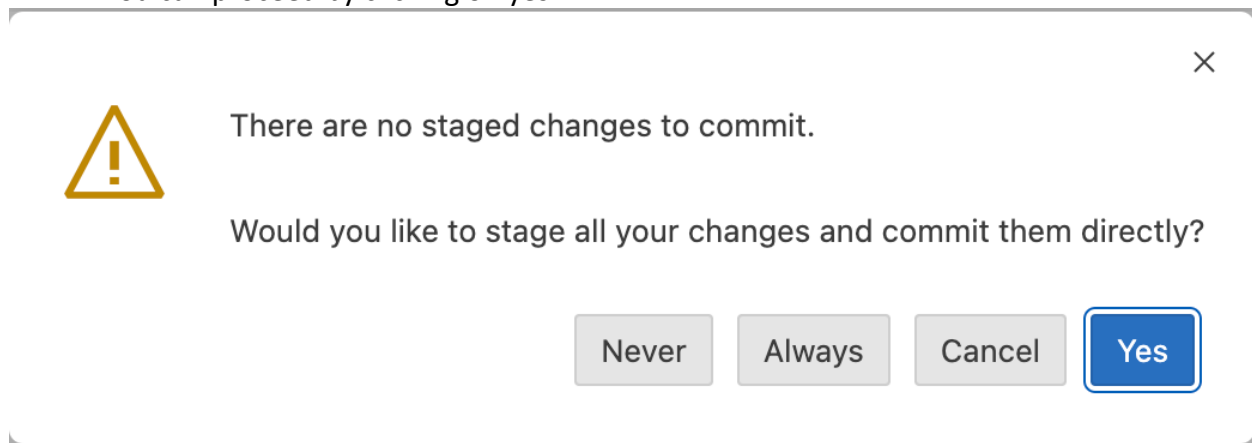
16. Once you click on it, you can see the changes made to your code, and especially the ones that were not committed yet.

17. If you are sure, you can write a message explaining the changes you made in the code, and you can proceed by clicking on commit.

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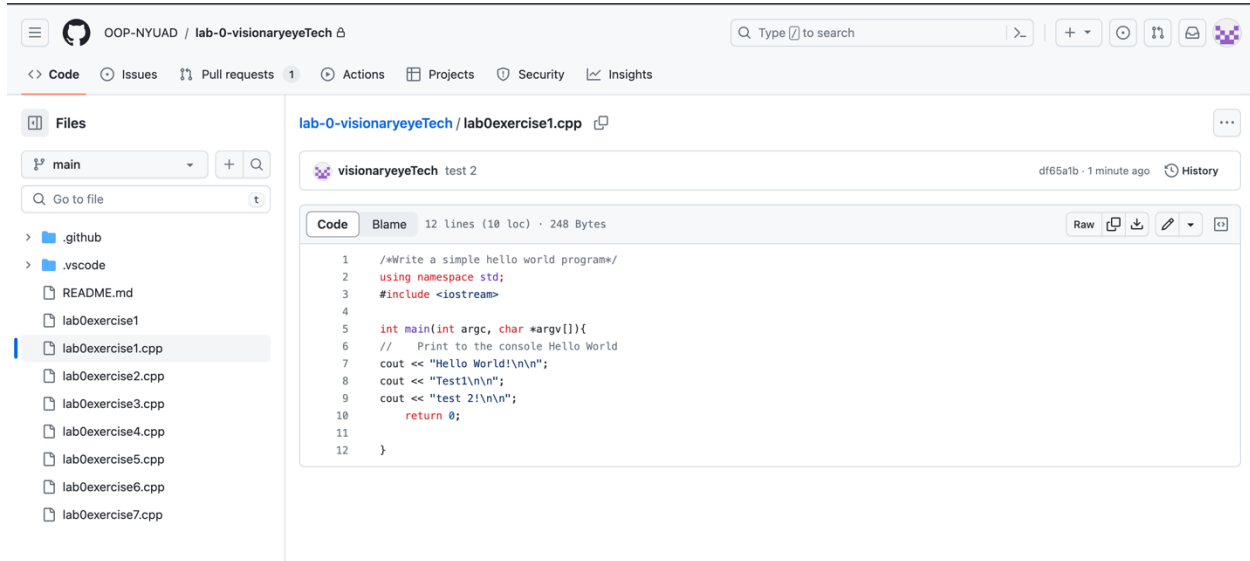


You can proceed by clicking on yes.



18. Once you commit your code changes, they will be reflected on your GitHub Classrooms repository.

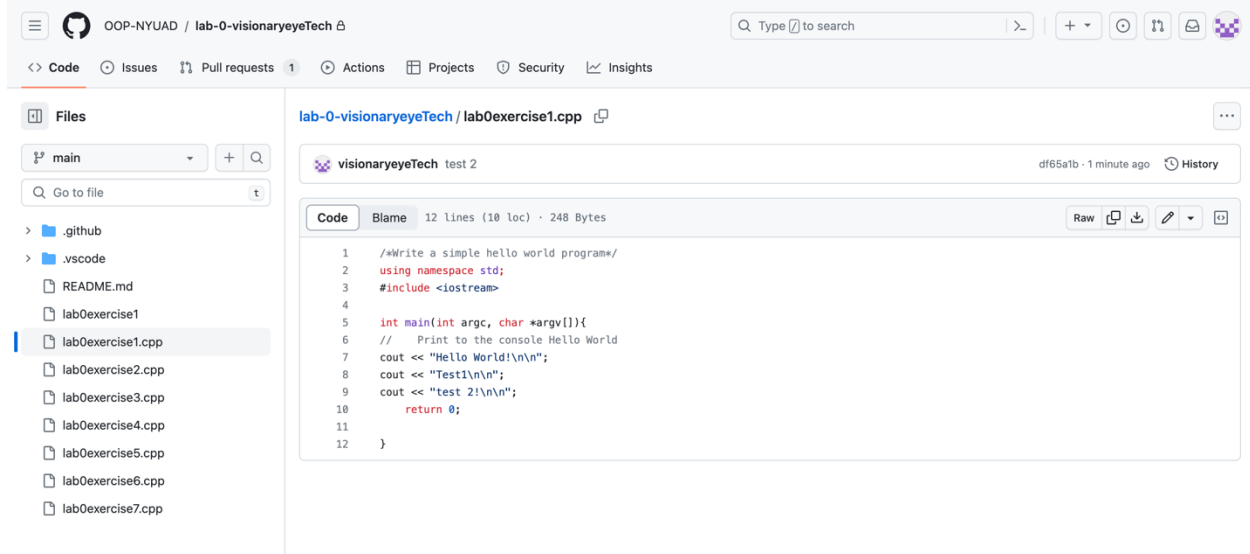
Getting Started with GitHub Classrooms:



The screenshot shows the GitHub Classroom interface for a repository named 'lab-0-visionaryeyeTech'. The left sidebar displays a file explorer with a list of files: .github, .vscode, README.md, lab0exercise1, lab0exercise1.cpp (selected), lab0exercise2.cpp, lab0exercise3.cpp, lab0exercise4.cpp, lab0exercise5.cpp, lab0exercise6.cpp, and lab0exercise7.cpp. The main area shows the content of 'lab0exercise1.cpp', which is a C++ program. The code is displayed in a light blue theme. The file is 12 lines (10 loc) and 248 Bytes. On the right side of the code editor, there is a 'History' icon (a clock) next to the commit hash 'df65a1b' and the time '1 minute ago'.

```
1  /*Write a simple hello world program*/
2  using namespace std;
3  #include <iostream>
4
5  int main(int argc, char *argv[]){
6  //   Print to the console Hello World
7  cout << "Hello World!\n\n";
8  cout << "Test1\n\n";
9  cout << "test 2!\n\n";
10     return 0;
11
12 }
```

19. You can click on the History icon on the extreme right to see the history of your changes.



This screenshot is identical to the one above, showing the same GitHub Classroom interface and C++ code. The 'History' icon (a clock) on the right side of the code editor is highlighted with a red circle, indicating it is the focus of the instruction.

20. Happy coding!