



GitHub

Presented by: Joe Omondi & Monicah Njaaga

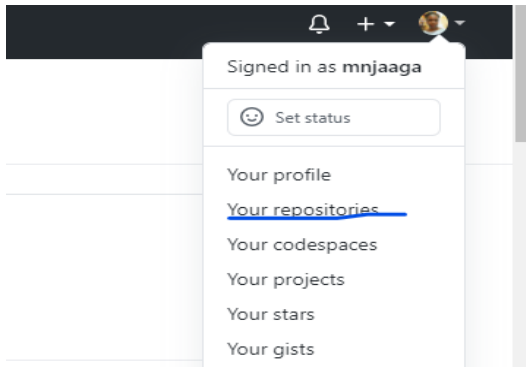


Jupyter Notebook to GitHub

Prerequisites

1. Create a repository in Github.com by:

- Logging into your account
- Navigate to the profile icon on the top right and click repositories



- Create a new repository



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *



mnjaaga ▾



Repository name *



Great repository names are short and memorable. Need inspiration? How about [sturdy-octo-goggles?](#)

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.



Add a README file

This is where you can write a long description for your project. [Learn more.](#)



Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)



Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

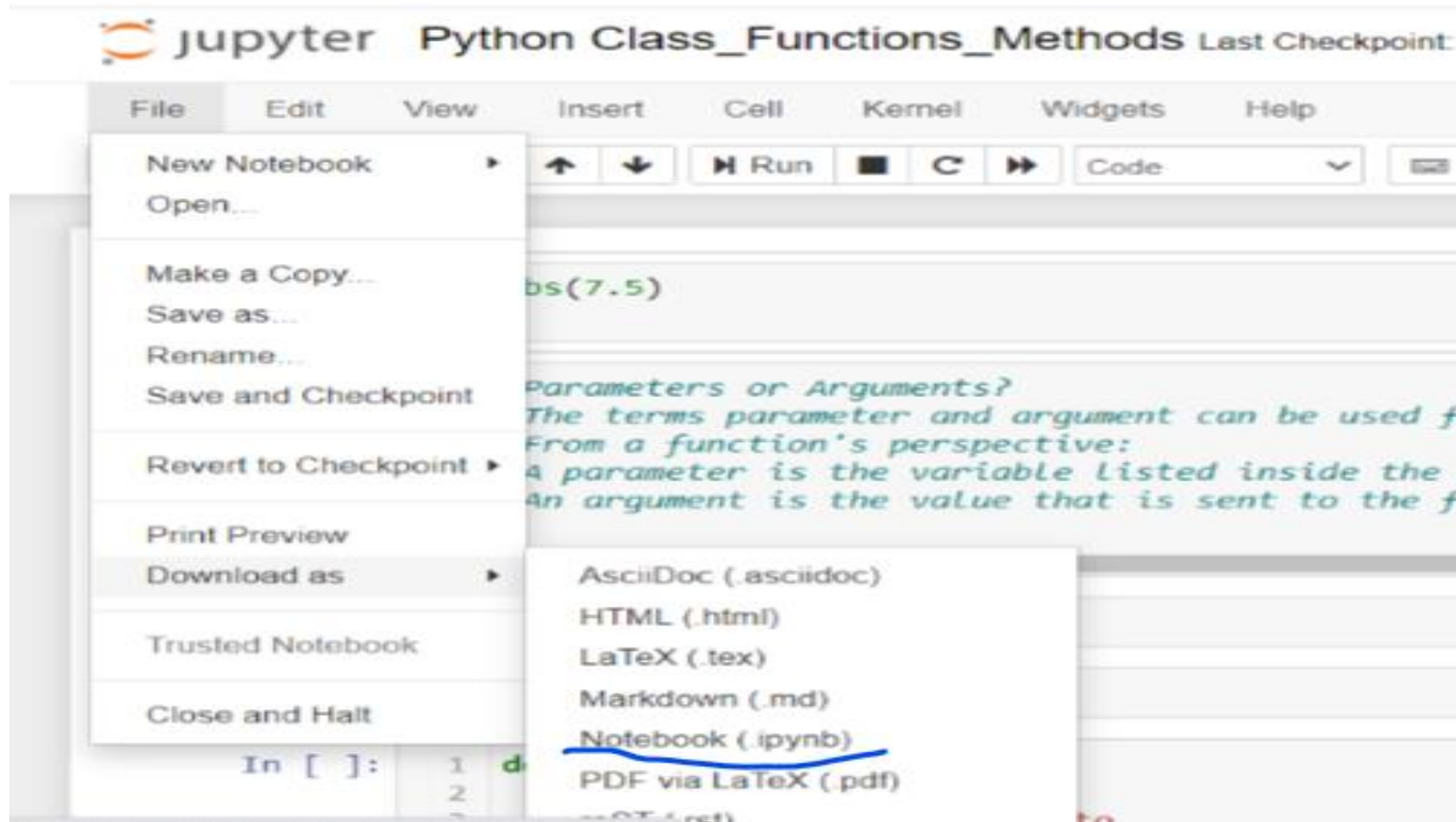
Create repository

Presented by: Joe Omondi & Monicah Njaaga

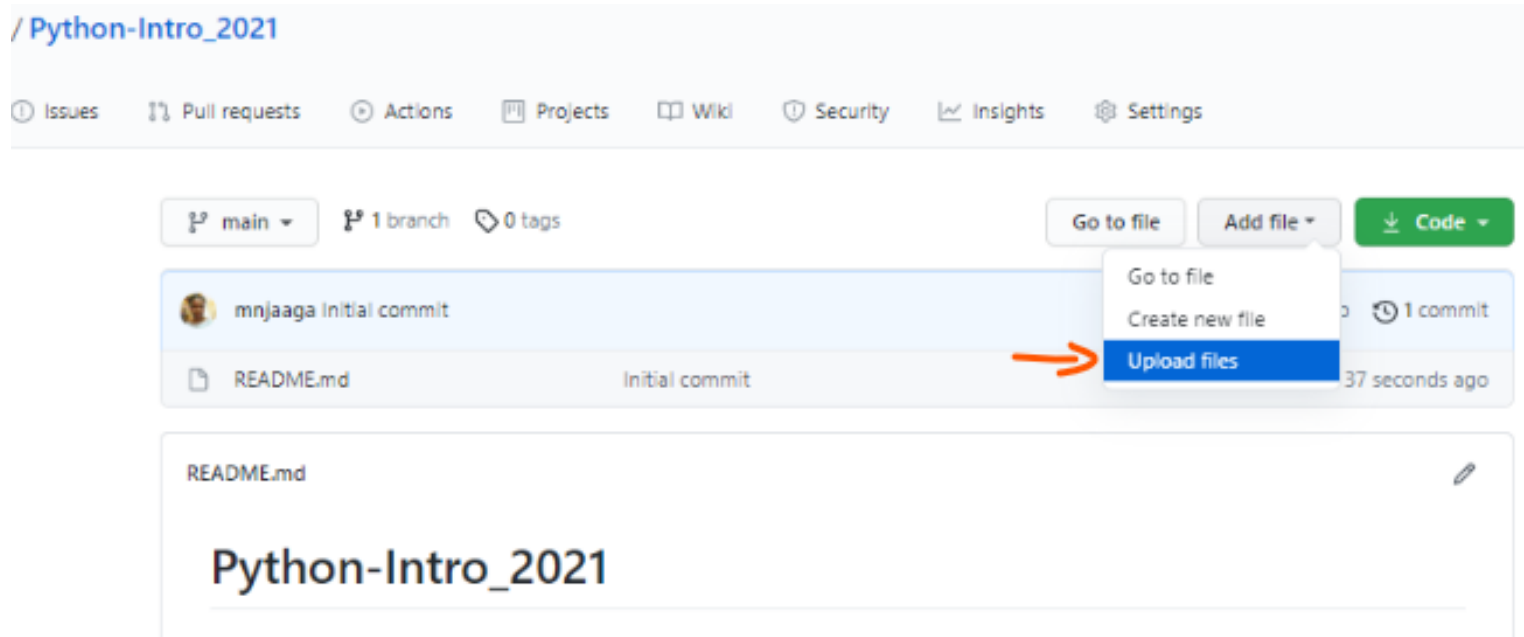
Navigate to Jupyter Notebook

- select the file you want to move to Github
- download as below

This saves your file in your downloads folder on your local machine



Navigate back to github.com and upload your downloaded file into your repository

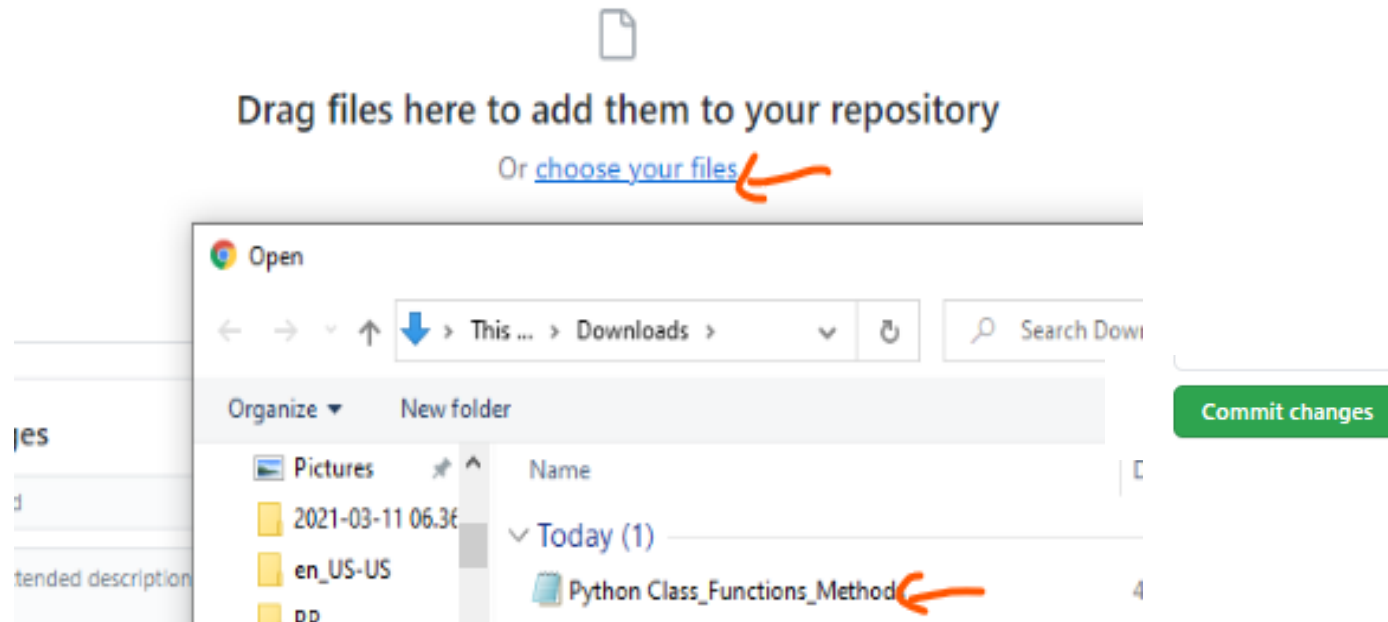


There are 2 options:

- Drag file
- Choose your file


(confirm your file name before uploading)

All changes Must be **committed**




Edit ReadMe with explanation on the file you have uploaded. This can include use case, screenshots etc

main 1 branch 0 tags Go to file Add file Code

 mnjaaga Initial commit


e55e075 yesterday 1 commit

 README.md

Initial commit

yesterday

README.md



Python-Intro_2021

Note: All changes must be **COMMITTED**

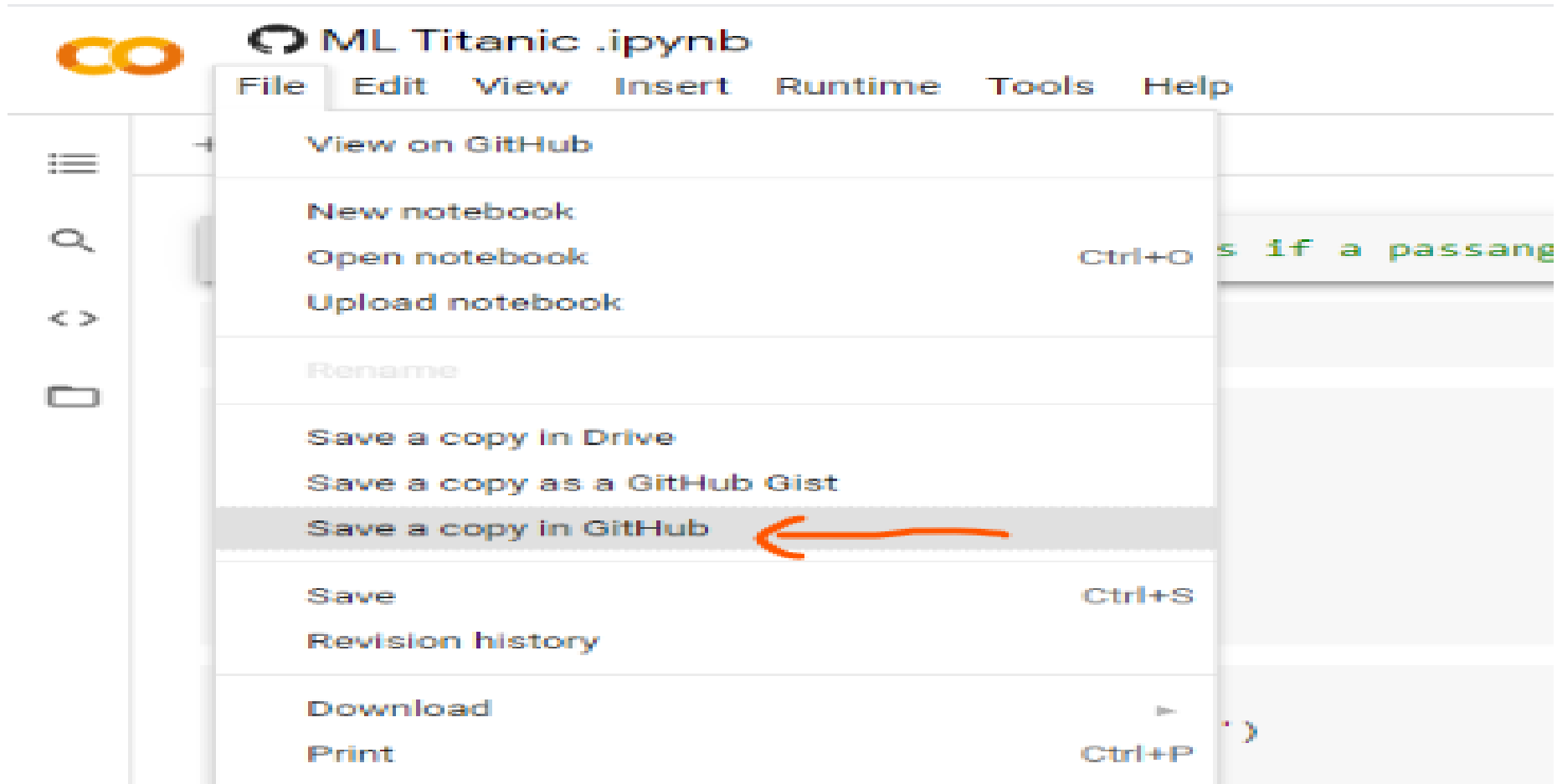
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Google Colab to Github

Create your repository in Github.com (see slides 3&4)

Navigate to your file in colab



Copy to GitHub

Repository: [🔗](#)

mnjaaga/Github-Uploads ▼



Branch: [🔗](#)

main ▼

File path

ML_Titanic_.ipynb

Commit message

Created using Colaboratory




Include a link to Colaboratory

CANCEL



OK

Navigate to Github.com to confirm the file upload and edit README.md


main ▾ 1 branch 0 tags Go to file Add file ▾ Code ▾

 mnjaaga Created using Colaboratory

399c9fc 2 minutes ago ⌚ 3 commits

 ML_Titanic_.ipynb	← This is a demo	6 days ago
 <u>README.md</u>	Initial commit	6 days ago

README.md



Github-Uploads

This is a repo to demo how to upload documents on Github



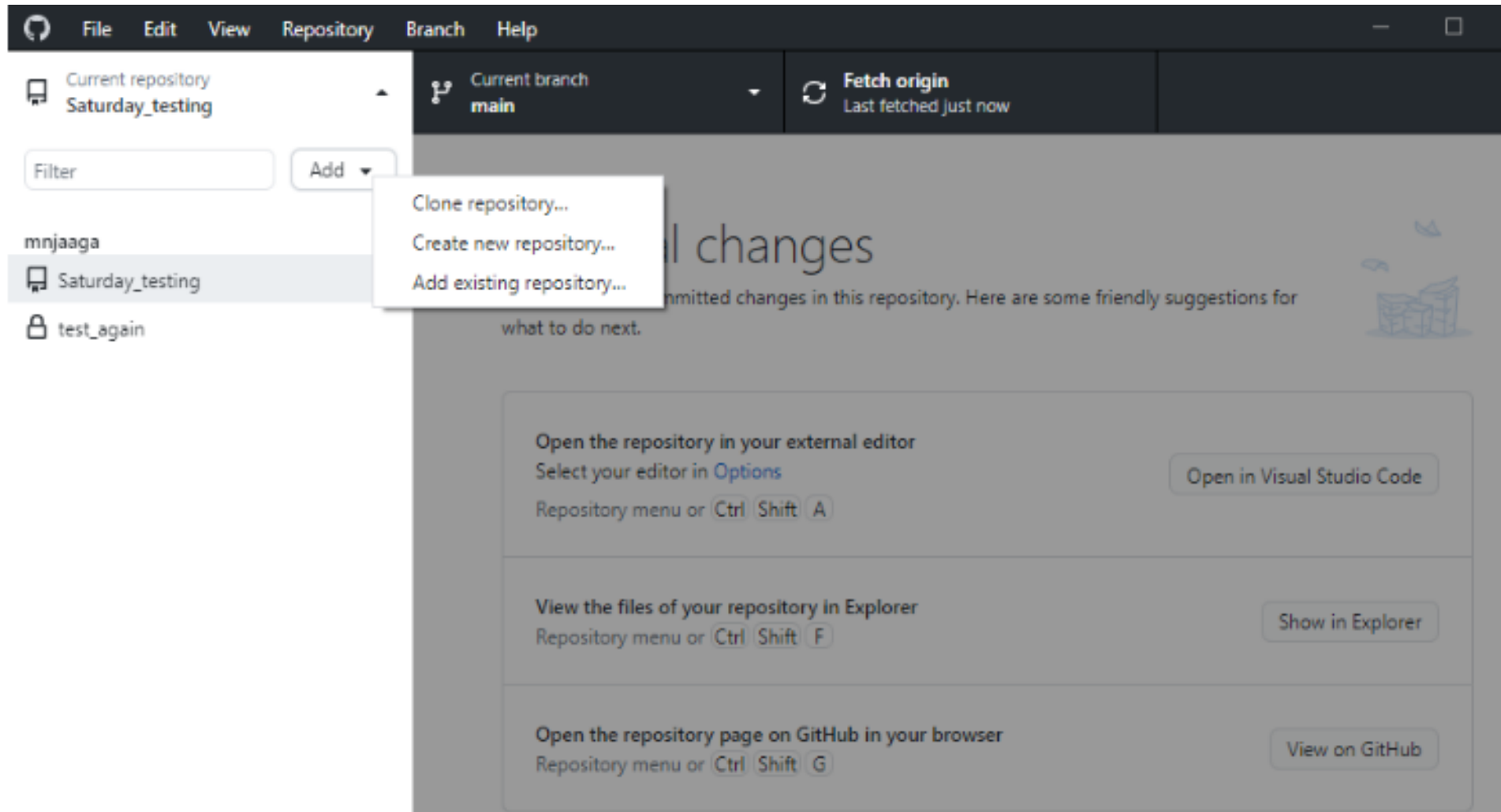
Visual Studio Code to Github

using GitHub Desktop



Prerequisites:

Download Github desktop & Github.com



Note: You have to be signed into both GitHub desktop & Github.com

Create a new repository

Name

repository name

Description

Local path

C:\Users\mnjaa\Documents\GitHub

Choose...

☐ Initialize this repository with a README

Git ignore

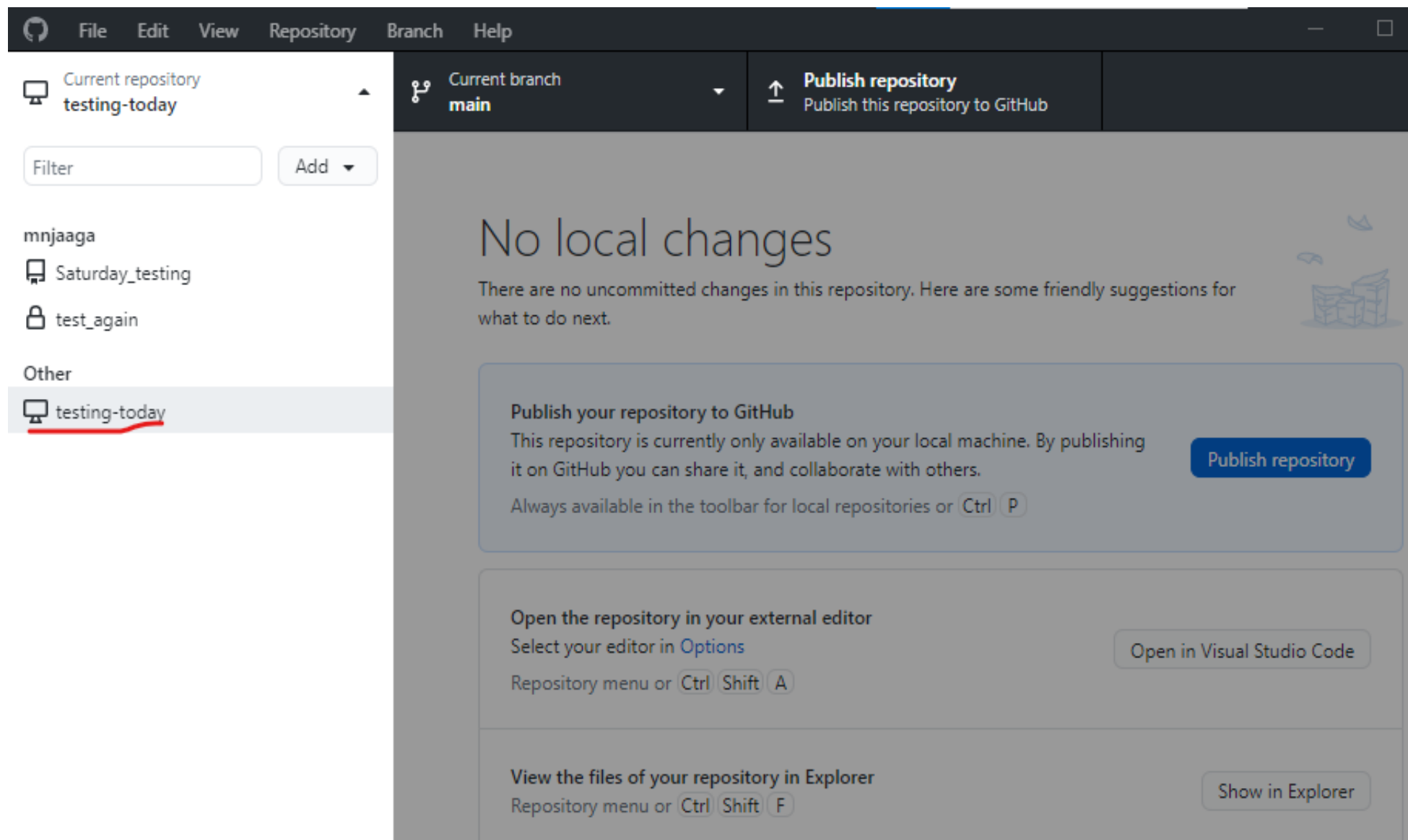
None

License

None

Create repository

Cancel



At this point, your repository is not created in Github.com until you Publish repository.

You can confirm by checking in github.com

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No local changes

Publish repository



GitHub.com

GitHub Enterprise

Name

testing-today

Description

this is optional

☒ Keep this code private

Publish repository

Cancel

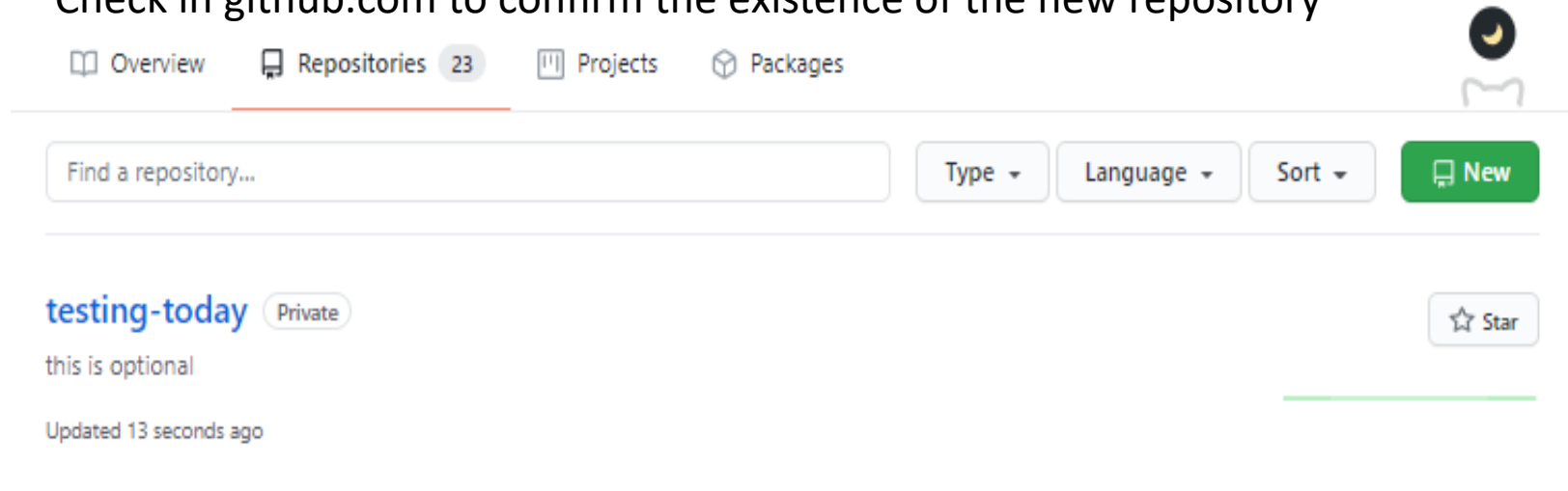
Repository menu or **Ctrl** **Shift** **F**

Publish repository

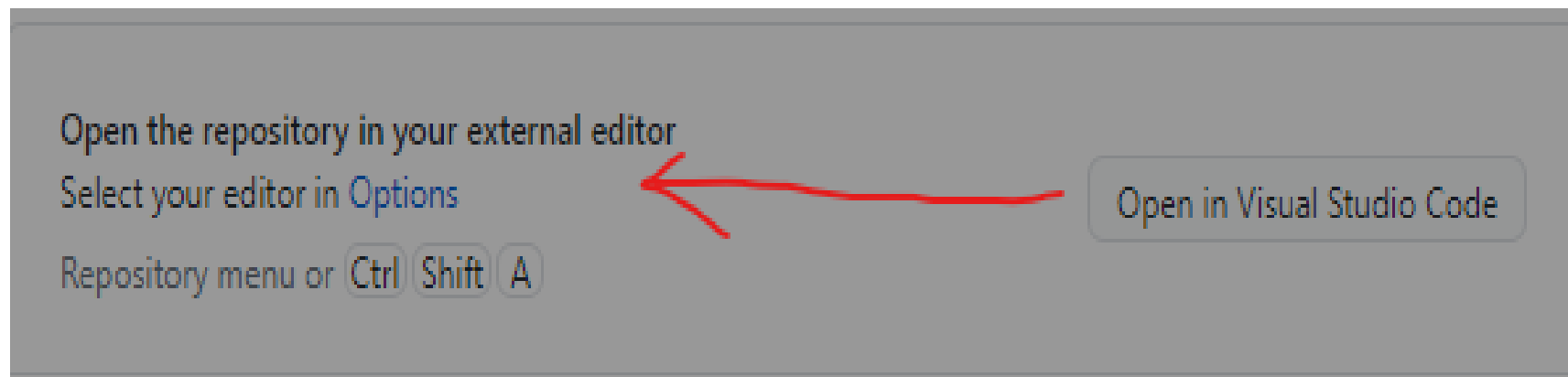
Open in Visual Studio Code

Show in Explorer

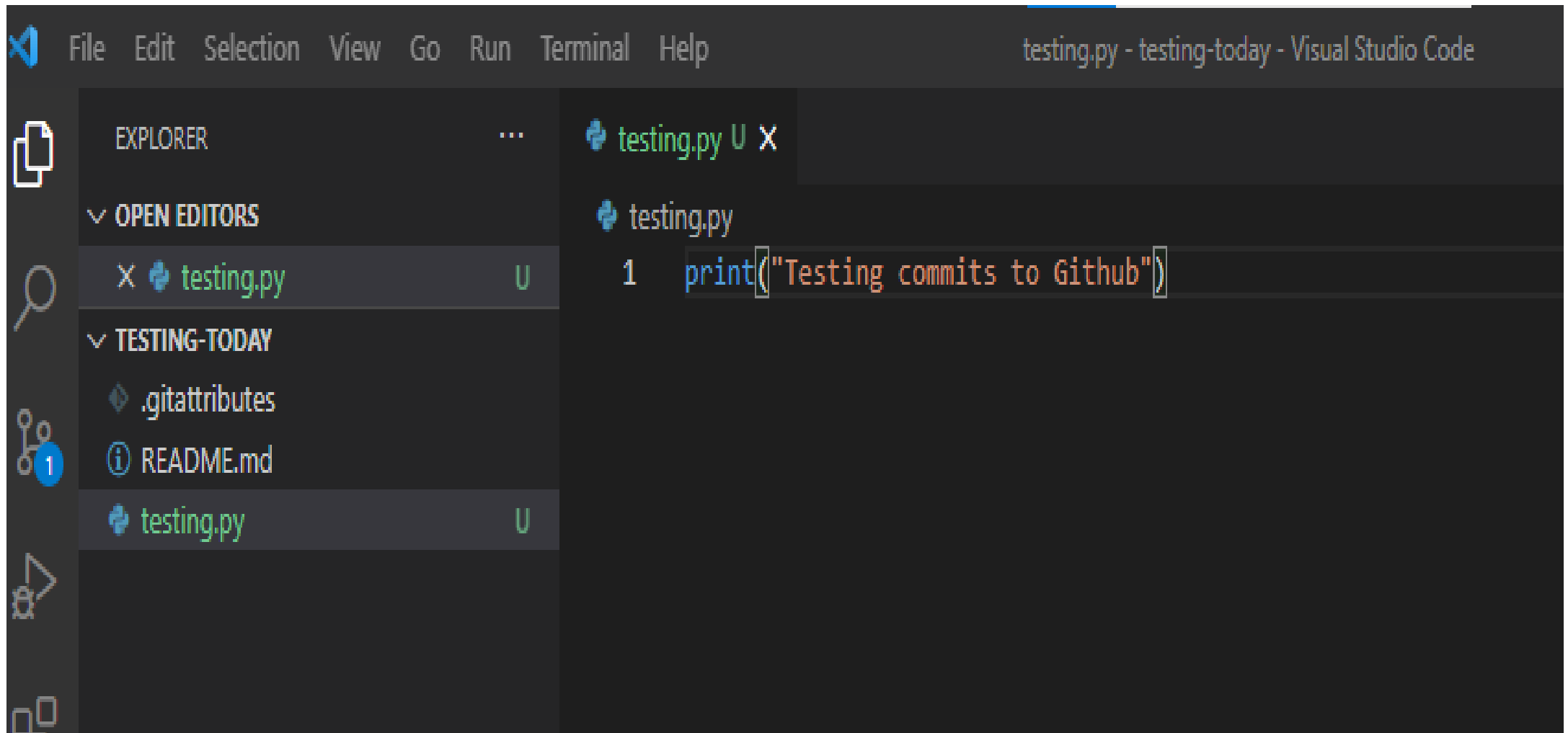
Check in github.com to confirm the existence of the new repository



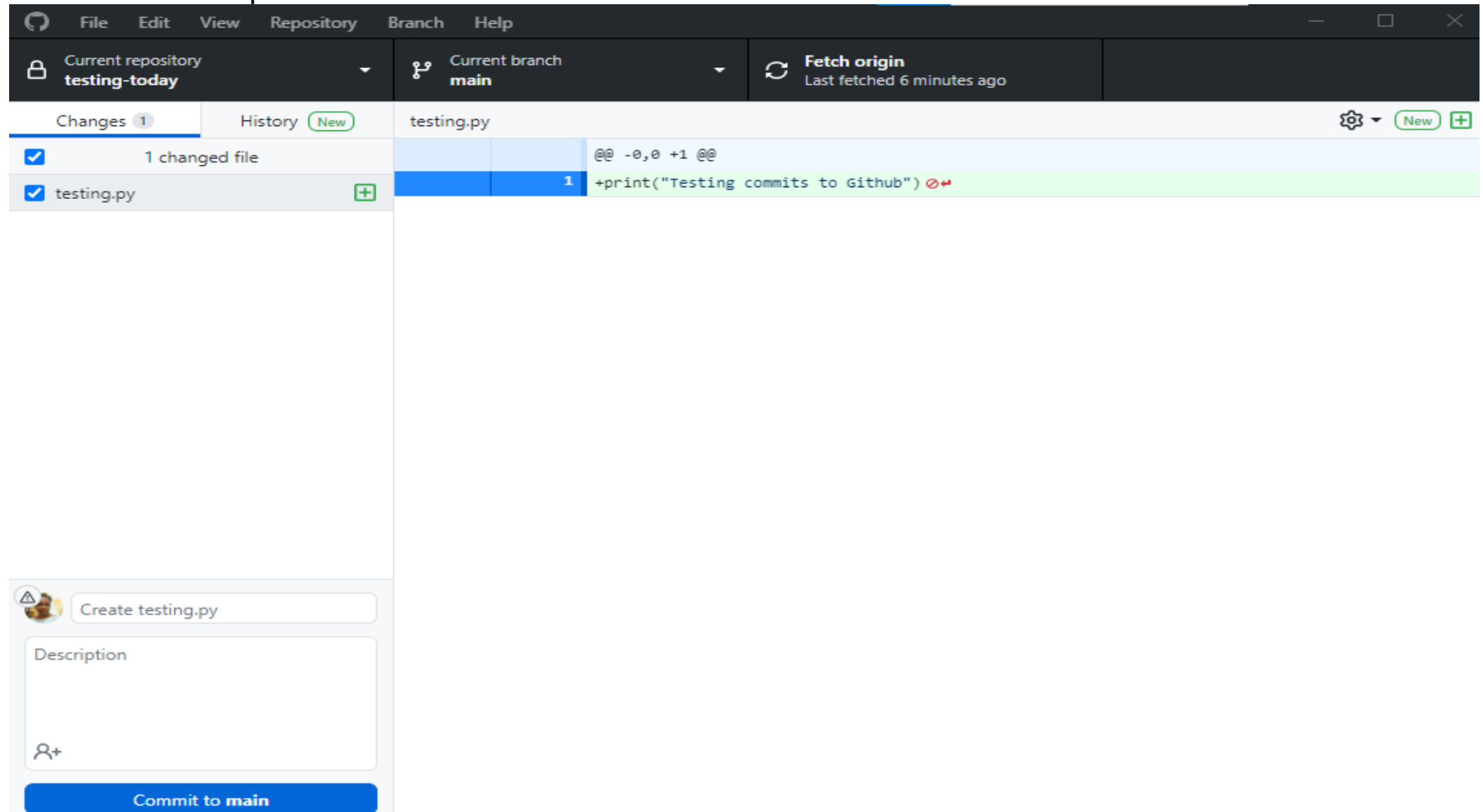
A new **python** file has to be created to start writing your code



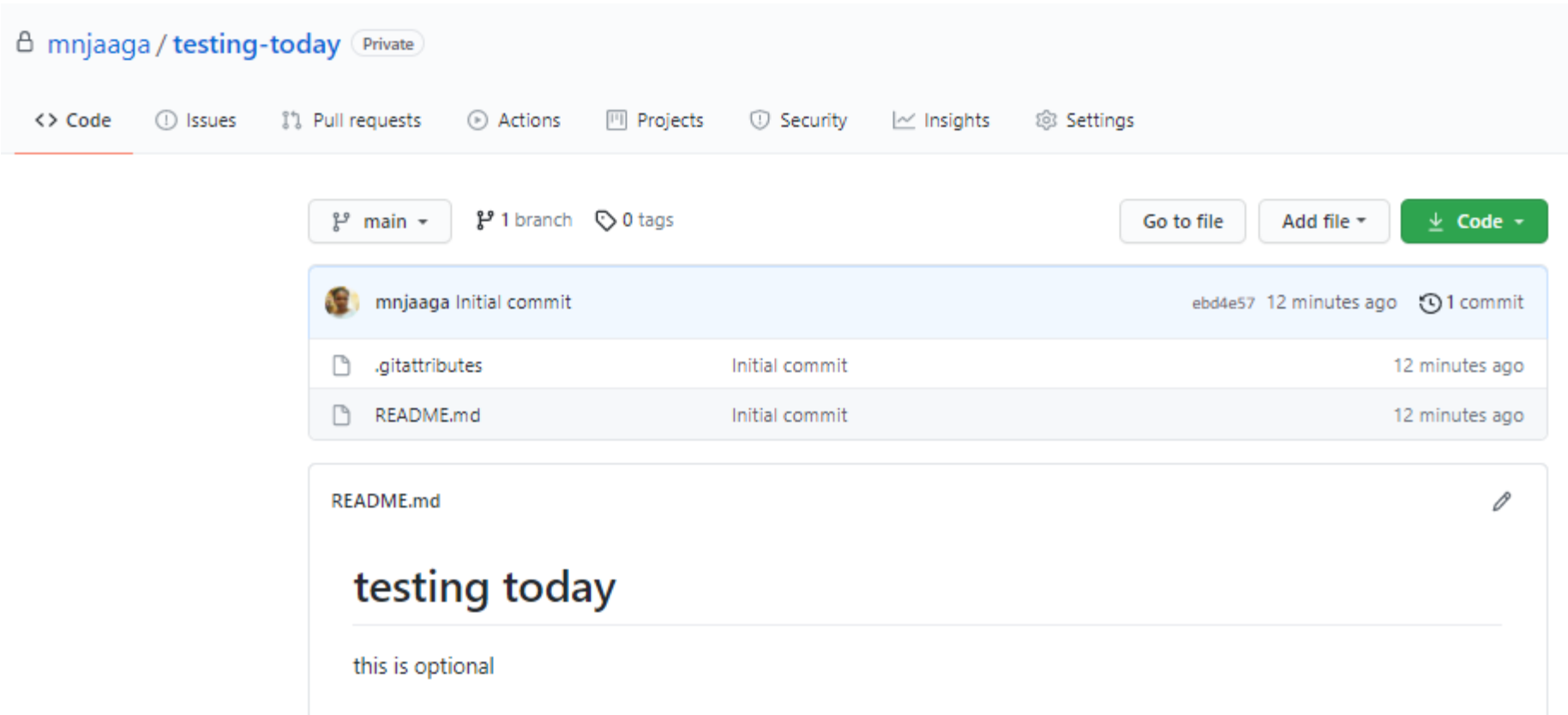
In VSCode



In Github desktop



To send the changes in the repo to Github
Before:



The screenshot shows a GitHub repository page for 'mnjaaga / testing-today'. The repository is marked as 'Private'. The navigation bar includes links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. Below the navigation bar, there are buttons for 'main' (with a dropdown), '1 branch', and '0 tags'. To the right are buttons for 'Go to file', 'Add file', and a green 'Code' button with a download icon. The commit history shows a single commit by 'mnjaaga' titled 'Initial commit' with hash 'ebd4e57', made '12 minutes ago'. Below the commit history, the file list shows '.gitattributes' and 'README.md', both from the 'Initial commit' '12 minutes ago'. The 'README.md' file content is displayed below, showing the text 'testing today' in a large font, followed by 'this is optional'.

mnjaaga / testing-today Private

<> Code ⓘ Issues 🔗 Pull requests ⚙️ Actions 📁 Projects 🛡️ Security 📊 Insights ⚙️ Settings

main 1 branch 0 tags Go to file Add file Code

mnjaaga Initial commit ebd4e57 12 minutes ago 1 commit

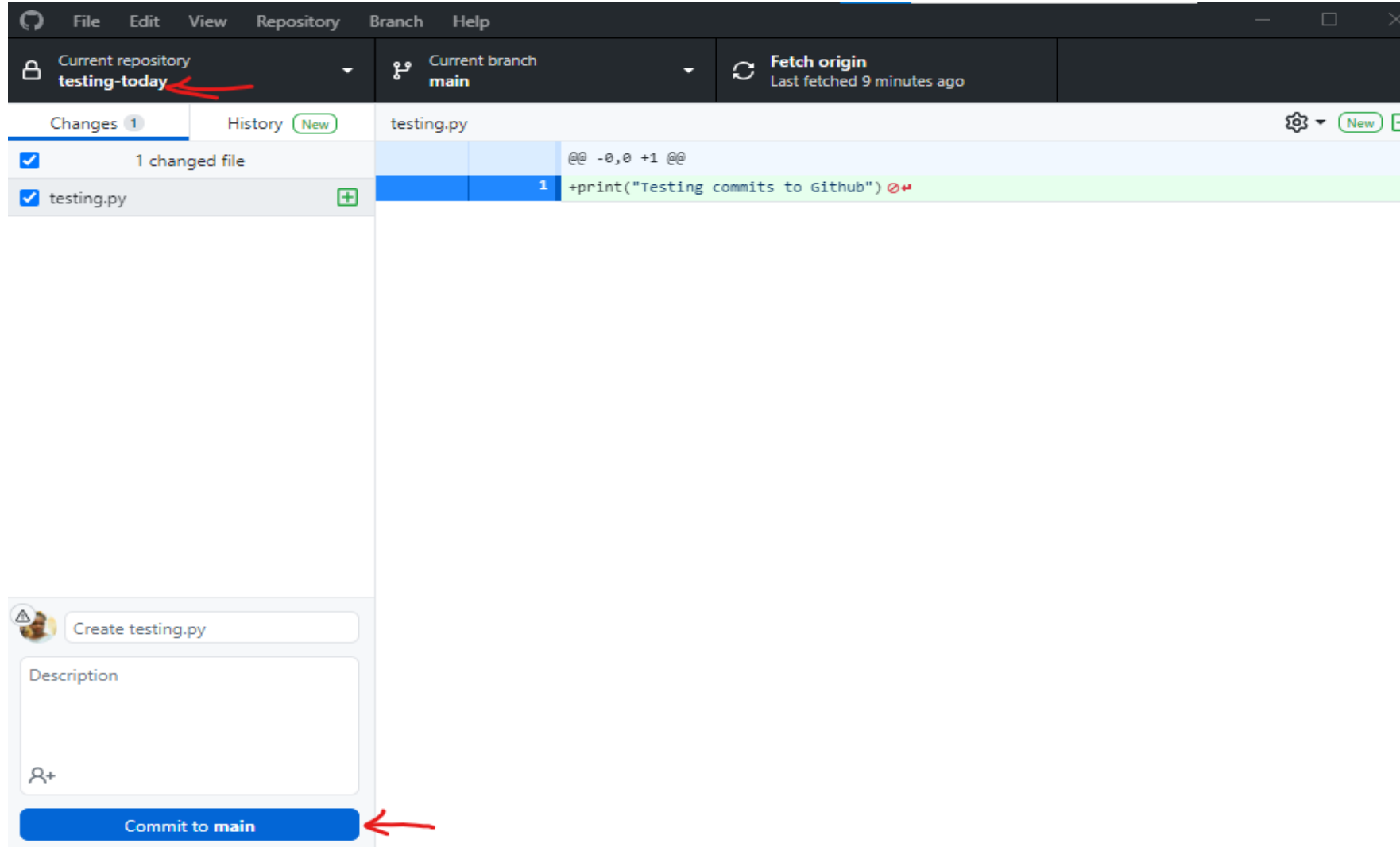
.gitattributes	Initial commit	12 minutes ago
README.md	Initial commit	12 minutes ago

README.md

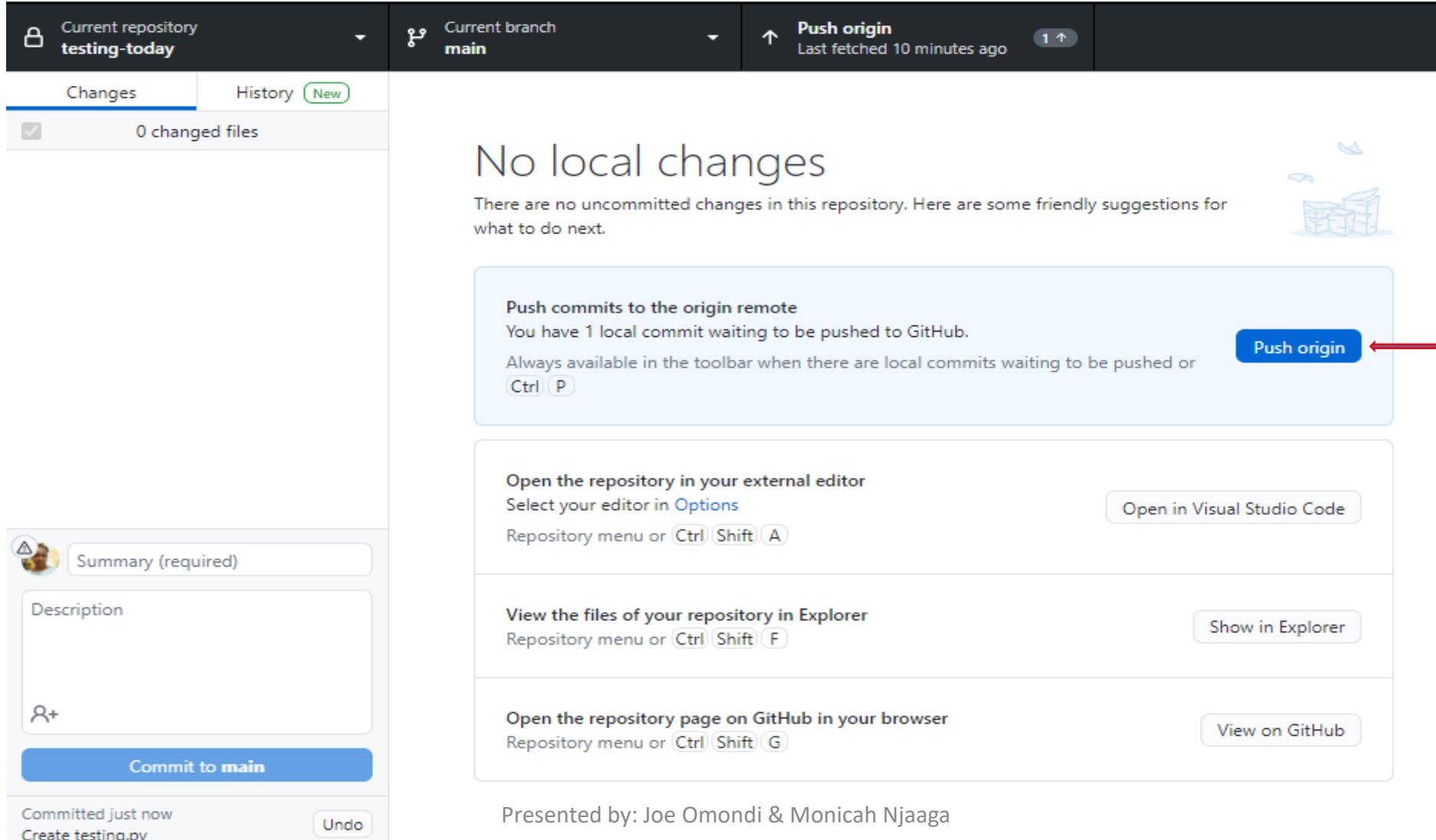
testing today

this is optional

To send



After clicking on Commit to Main, the pop up below will appear prompting a push to Github.com
At this time, your file is still not pushed into github.com, you can refresh the page to confirm



The screenshot shows the Visual Studio Code interface with the following elements:

- Header Bar:**
 - Current repository: `testing-today`
 - Current branch: `main`
 - Push origin: Last fetched 10 minutes ago (1 ↑)
- Left Panel:**
 - Changes: 0 changed files
 - History: New
 - Summary (required):
 - Description:
 - Commit to main
 - Committed just now: Create testina.ov
 - Undo
- Main Area:**
 - No local changes**
There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.
 - Push commits to the origin remote**
You have 1 local commit waiting to be pushed to GitHub.
Always available in the toolbar when there are local commits waiting to be pushed or `Ctrl` `P`
Push origin (indicated by a red arrow)
 - Open the repository in your external editor**
Select your editor in [Options](#)
Repository menu or `Ctrl` `Shift` `A`
Open in Visual Studio Code
 - View the files of your repository in Explorer**
Repository menu or `Ctrl` `Shift` `F`
Show in Explorer
 - Open the repository page on GitHub in your browser**
Repository menu or `Ctrl` `Shift` `G`
View on GitHub

mnjaaga / testing-today Private

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

Settings

main

1 branch

0 tags

Go to file

Add file

Code



mnjaaga Create testing.py

4f78c49 3 minutes ago 2 commits



.gitattributes

Initial commit

17 minutes ago



README.md

Initial commit

17 minutes ago



testing.py

Create testing.py

3 minutes ago



PYcharm to Github

Pre-requisites:

- ❖ Sign into Github.com and create a repository (see slides 3&4). Repo does not need to have the same name as file created in Pycharm.
- ❖ Create a project in PyCharm
- ❖ Inside of the created project, create a new file(File can have any extension allowed by Pycharm).
- ❖ Sign into Github thru Pycharm Version Control Settings Options.

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Owner *



Jomondi ▾

Repository name *



Great repository names are short and memorable. Need inspiration? How about **reimagined-enigma**?

Description (optional)



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.

☐ **Add a README file**

This is where you can write a long description for your project. [Learn more](#).

☐ **Add .gitignore**

Choose which files not to track from a list of templates. [Learn more](#).

☐ **Choose a license**

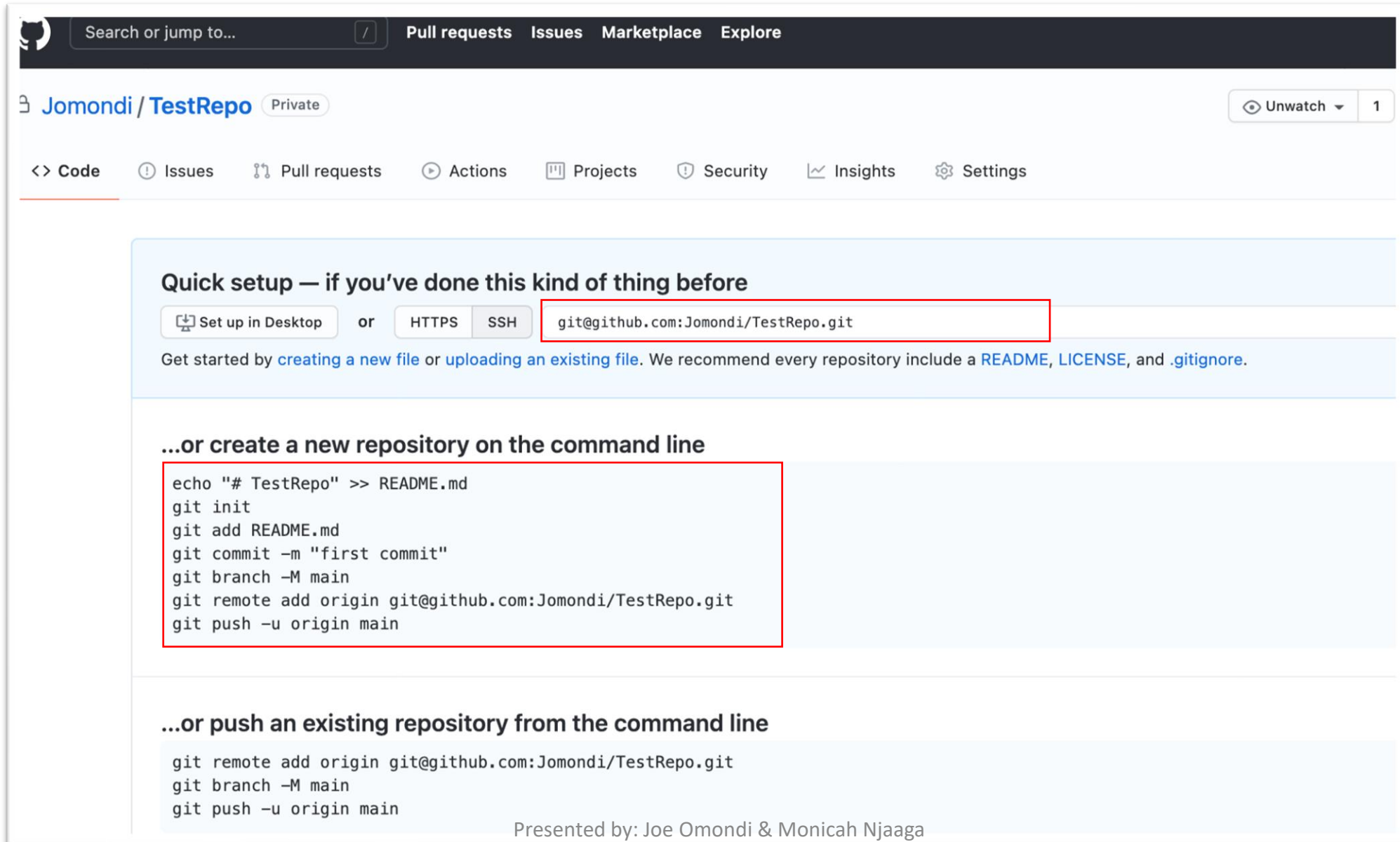
A license tells others what they can and can't do with your code. [Learn more](#).

Create repository



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In Github.com, navigate to the repo you have created, to find the steps below to follow to commit your code from PyCharm.



The screenshot shows the GitHub interface for a repository named "TestRepo" by user "Jomondi". The repository is marked as "Private". The top navigation bar includes links for "Pull requests", "Issues", "Marketplace", and "Explore". Below the repository name, there are tabs for "Code", "Issues", "Pull requests", "Actions", "Projects", "Security", "Insights", and "Settings". The "Code" tab is selected, displaying instructions for cloning the repository.

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH `git@github.com:Jomondi/TestRepo.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# TestRepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:Jomondi/TestRepo.git
git push -u origin main
```

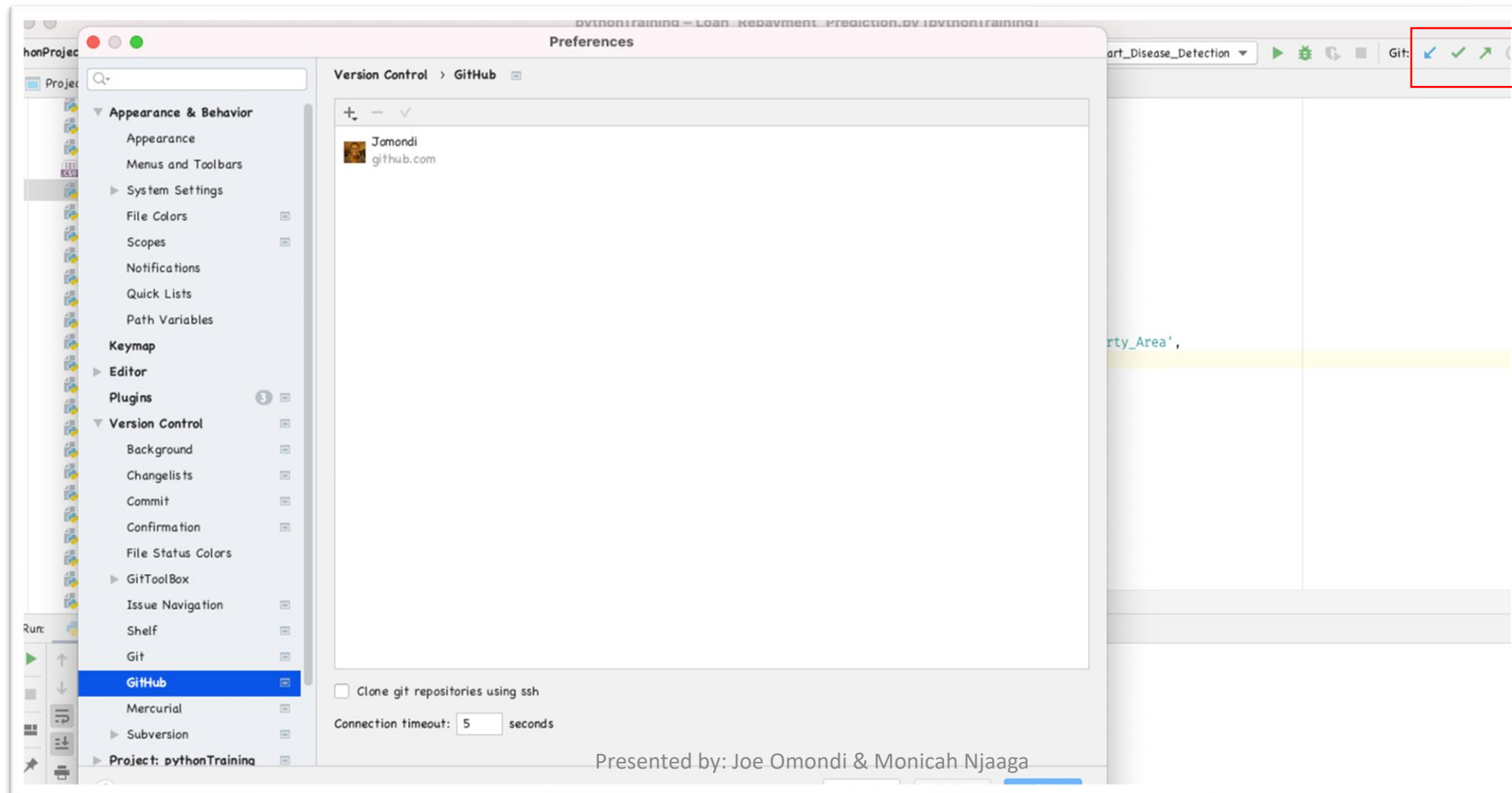
...or push an existing repository from the command line

```
git remote add origin git@github.com:Jomondi/TestRepo.git
git branch -M main
git push -u origin main
```

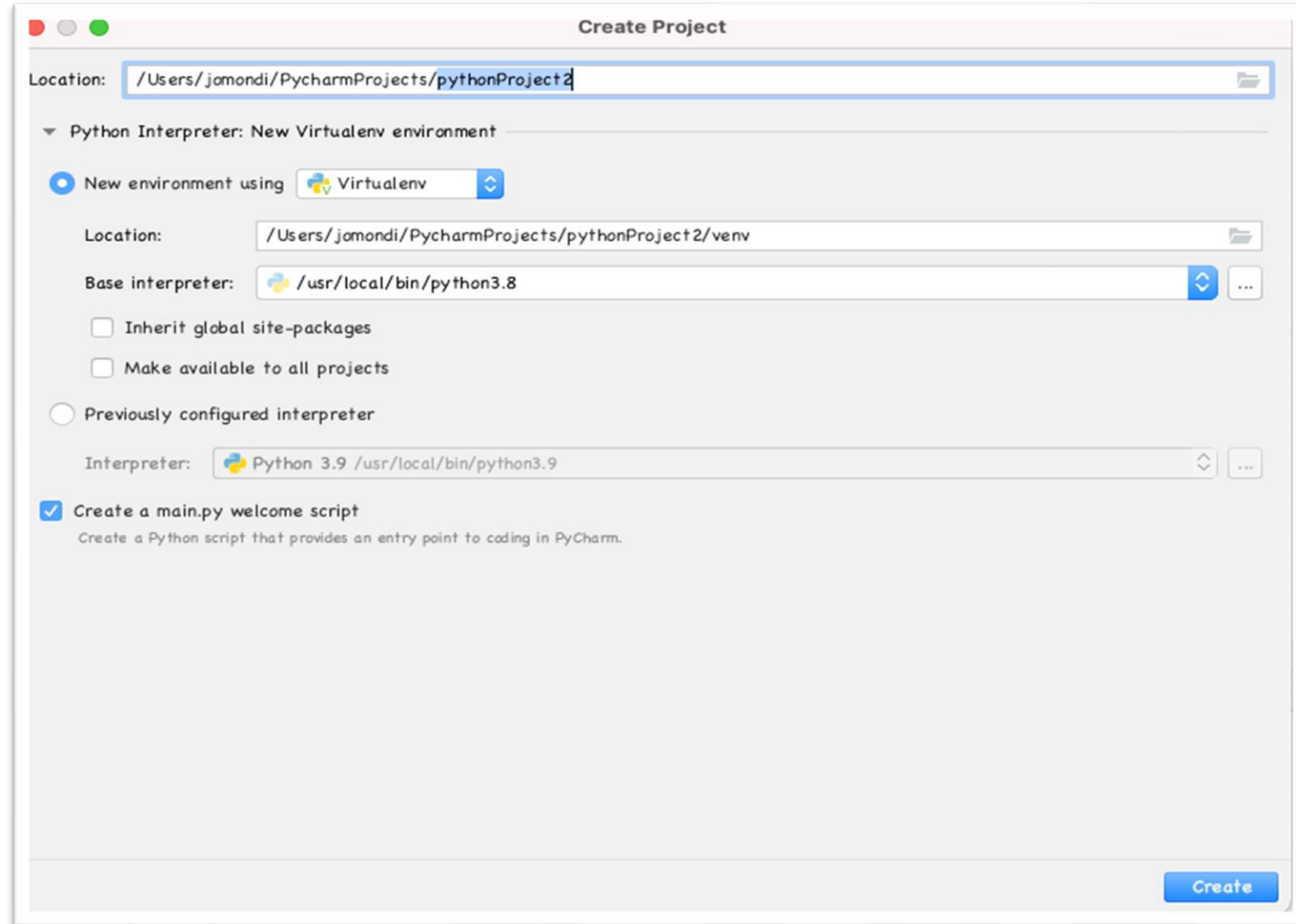
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In PyCharm, create a new project – File -> New Project

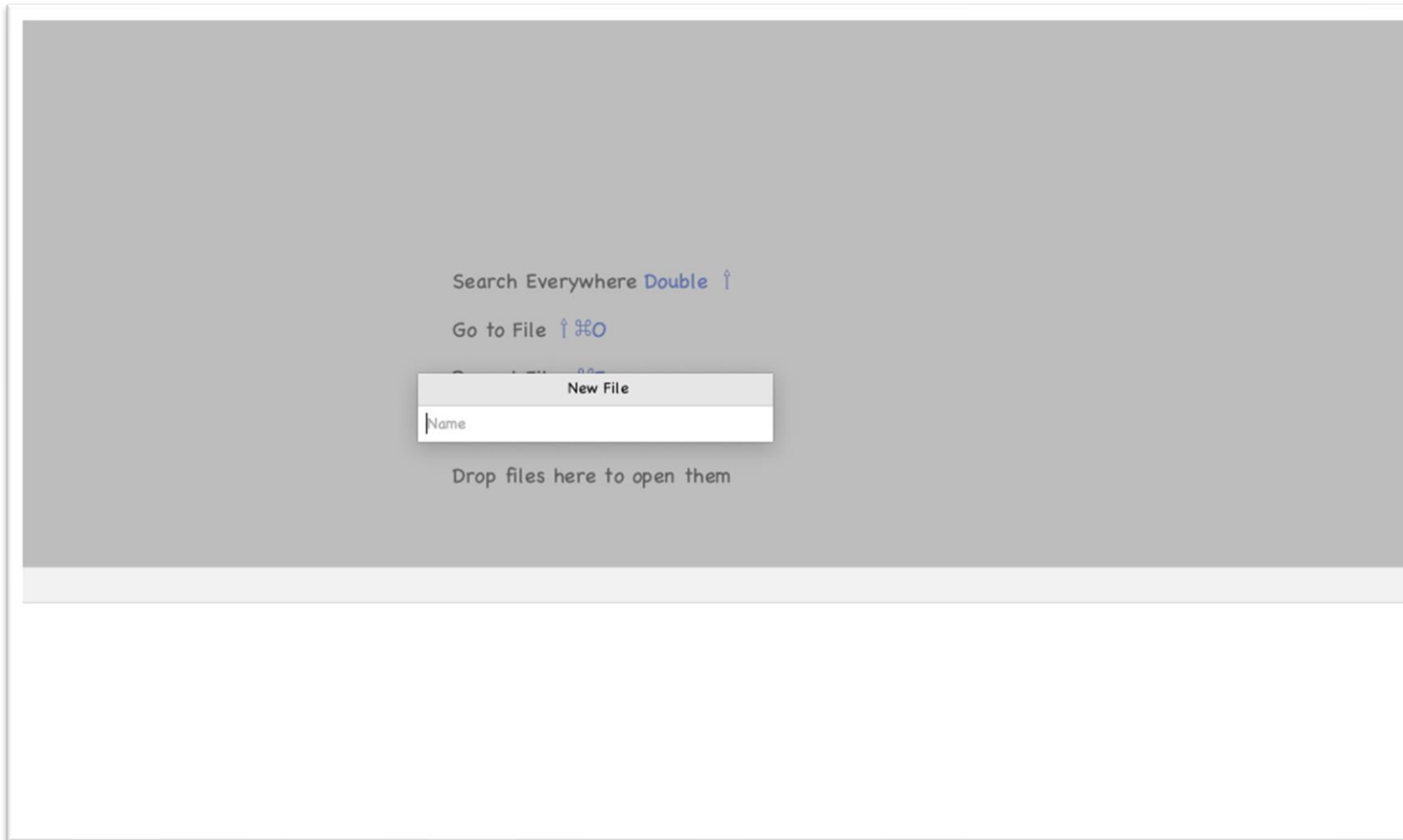
If you are logged into Github.com, you will see the icons to the right (in an orange box)

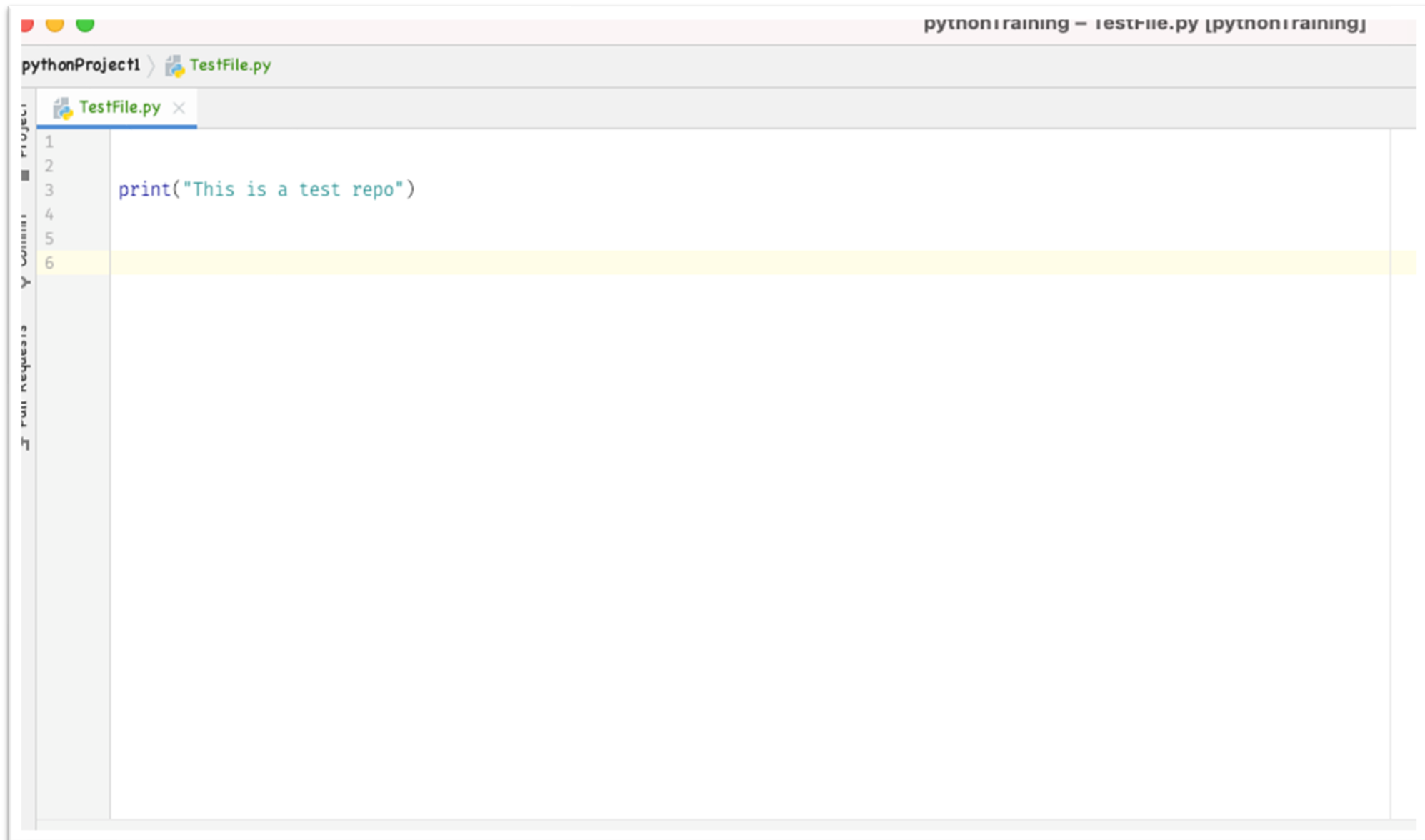


Pick a name of your choice, then click create, it is preferable that you open your project in a New window
Note: It may take a while to create the project



Create a new Python(.py) file

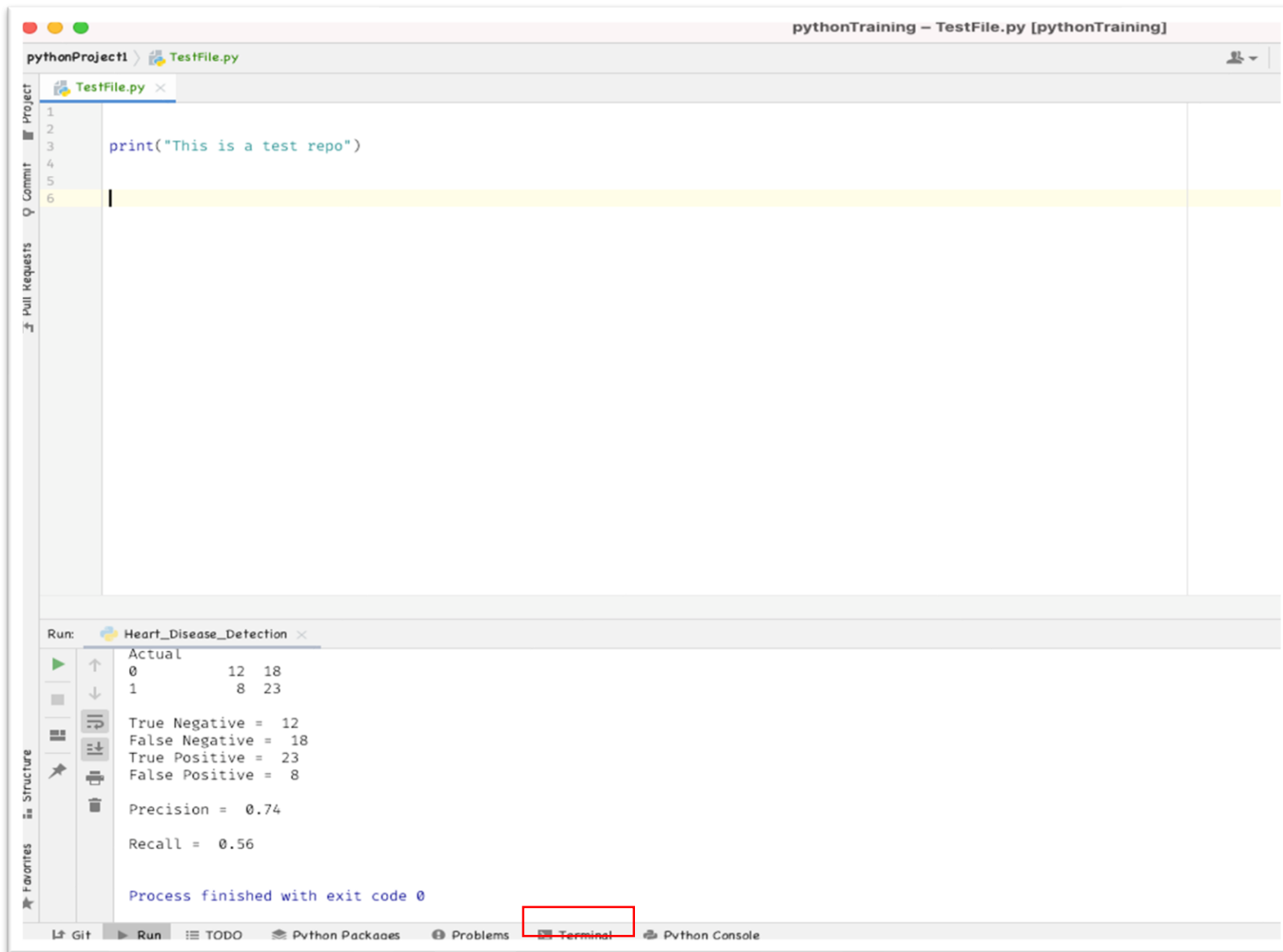




The image shows a code editor window with the title bar "pythontraining - TestFile.py [pythontraining]". The editor is open to a file named "TestFile.py" within a project named "pythonProject1". The code editor displays a single line of Python code: `print("This is a test repo")`. The line is highlighted in yellow. The left sidebar shows a file explorer with a tree view containing "pythonProject1" and "TestFile.py".

```
1  
2  
3 print("This is a test repo")  
4  
5  
6
```

Navigate to the terminal within the Pycharm window (see circled in red)



In the terminal, execute the steps below in the displayed order. Ignore the `git add README.md` command especially if you don't have such a file created in your local.


The screenshot shows the GitHub interface for a repository named 'TestRepo' by user 'Jomondi'. The repository is marked as 'Private'. The navigation bar includes links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. The 'Code' tab is selected, displaying a 'Quick setup' section with options for 'Set up in Desktop', 'HTTPS', and 'SSH'. Below this, there are instructions for creating a new repository on the command line, including a list of git commands to initialize, add files, commit, create a branch, add a remote, and push. The repository URL is shown as 'git@github.com:Jomondi/TestRepo.git'.

Search or jump to... / Pull requests Issues Marketplace Explore

Jomondi / TestRepo Private Unwatch 1

<> Code ! Issues 🔗 Pull requests ▶ Actions 📁 Projects 🛡 Security 📈 Insights ⚙ Settings

Quick setup — if you've done this kind of thing before

 Set up in Desktop or HTTPS SSH git@github.com:Jomondi/TestRepo.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# TestRepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:Jomondi/TestRepo.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin git@github.com:Jomondi/TestRepo.git
git branch -M main
git push -u origin main
```

Once all commands are ran, navigate back to github and refresh the page. Newly committed file should now be visible.

You can now add a README.md file and update it with the project overview.

The screenshot shows a GitHub repository page for 'Jomondi / TestRepo'. The repository is private. At the top, there are buttons for 'Unwatch', 'Star' (1), and 'Fork' (0). Below this is a navigation bar with links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Security', 'Insights', and 'Settings'. The 'Code' tab is selected. Below the navigation bar, there are buttons for 'main' (1 branch), '0 tags', 'Go to file', 'Add file', and 'Code'. The repository contains two files: 'Jomondi Delete Shield.jpeg' (commit d369286, now, 32 commits) and 'TestFile.py' (First commit, 4 minutes ago). A blue box at the bottom of the file list says 'Add a README with an overview of your project.' with a green 'Add a README' button. On the right side, there are sections for 'About' (No description, website, or topics provided.), 'Releases' (No releases published, Create a new release), and 'Packages' (No packages published, Publish your first package).

Jomondi / TestRepo Private

Unwatch 1 Star 0 Fork 0

<> Code ! Issues 🔗 Pull requests ▶ Actions 📁 Projects 🛡 Security 📊 Insights ⚙ Settings

main 1 branch 0 tags Go to file Add file Code

Jomondi Delete Shield.jpeg d369286 now 32 commits

TestFile.py First commit 4 minutes ago

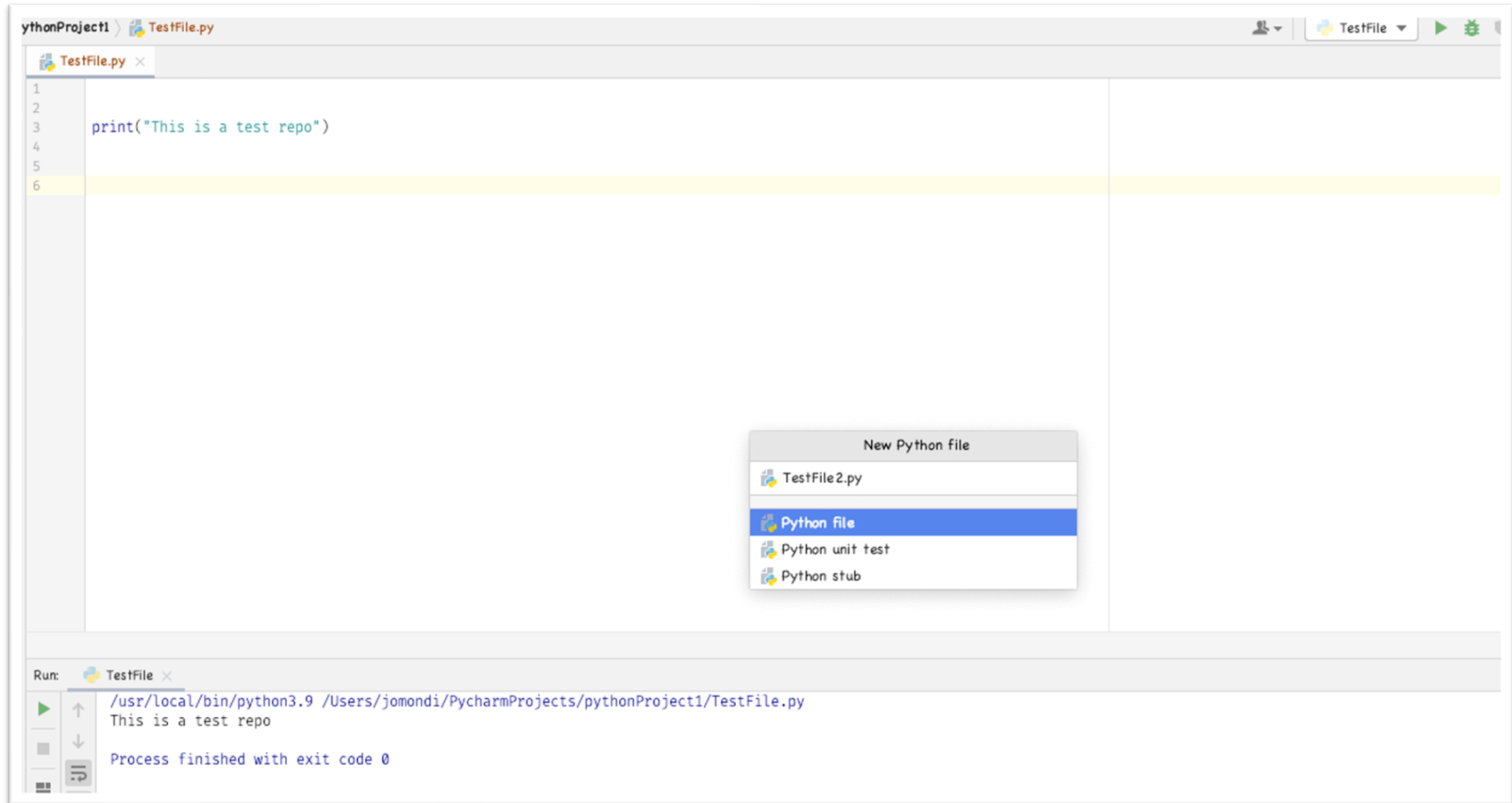
Add a README with an overview of your project. Add a README

About No description, website, or topics provided.

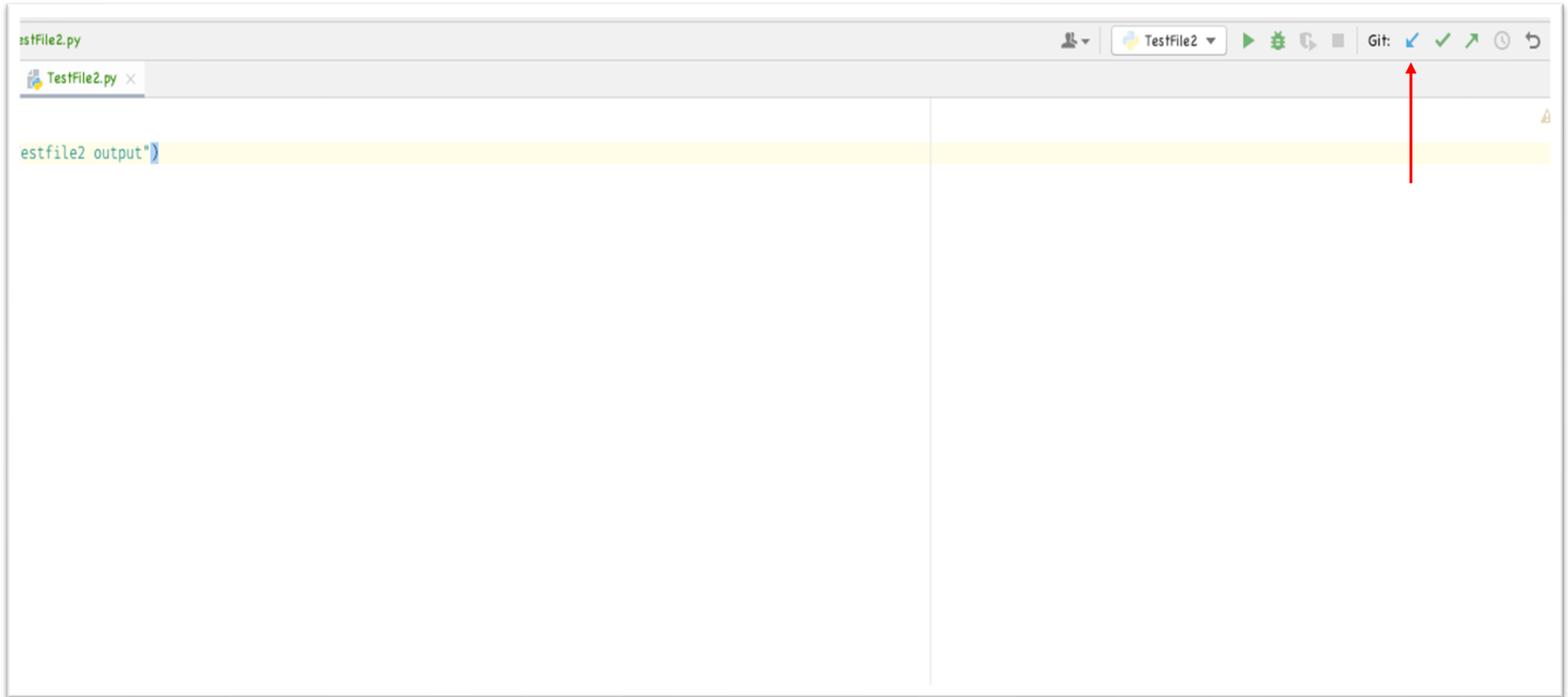
Releases No releases published Create a new release

Packages No packages published Publish your first package

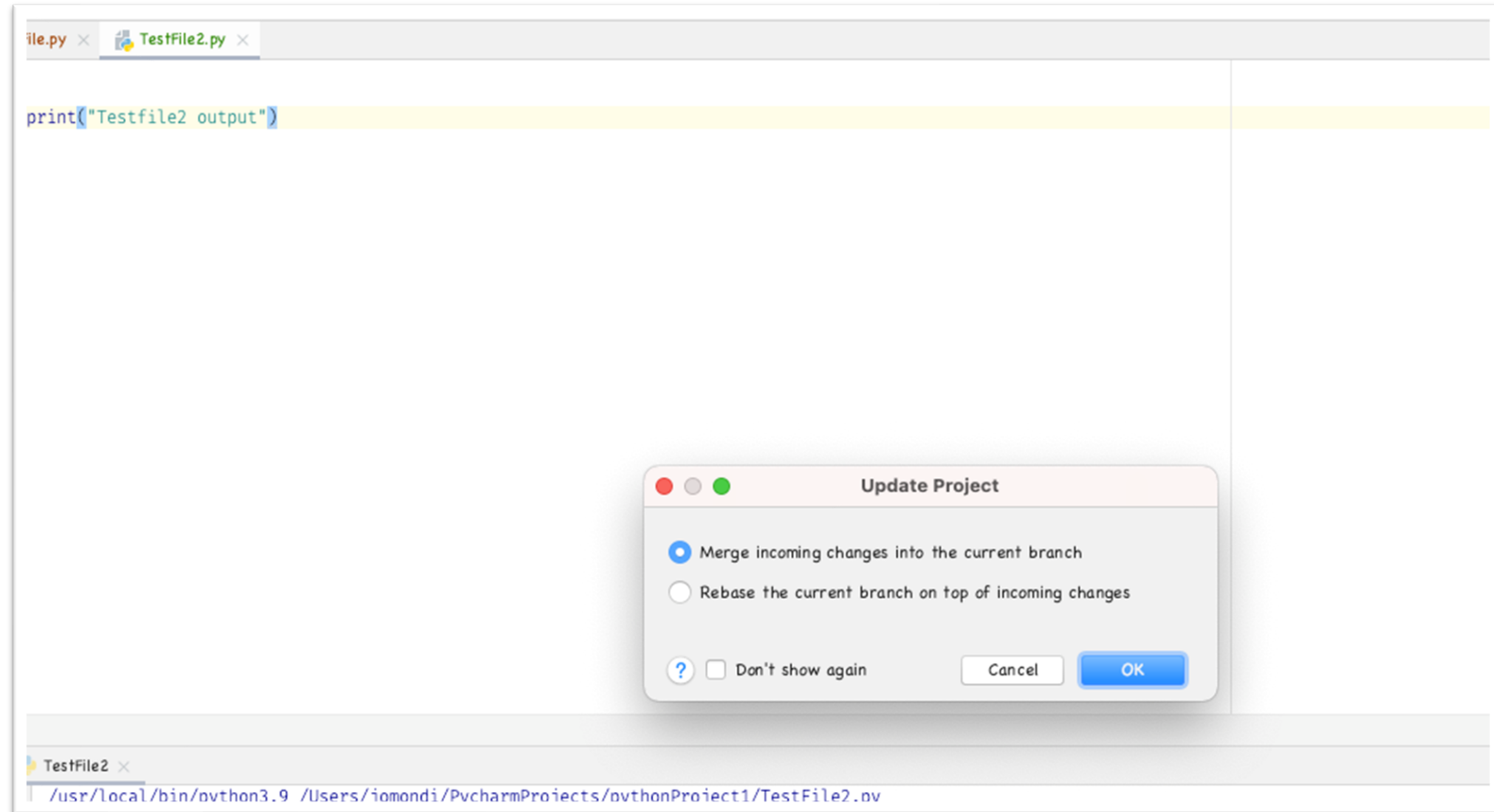
Create a new Python file and save it.



Click on update project arrow in Pycharm as displayed below.



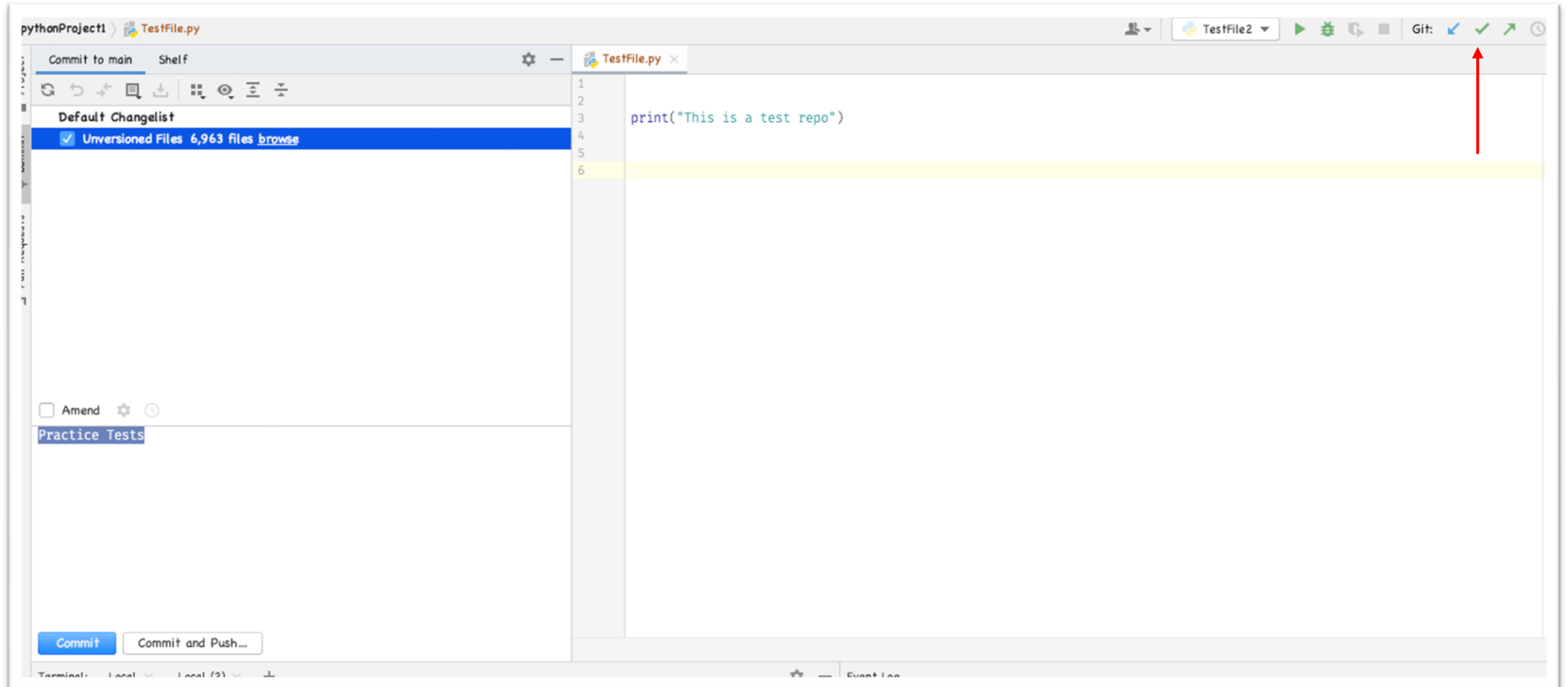
Click on OK button in the displayed pop up box.



Click on Commit button.

Select the file name from the displayed left menu then click on Commit and Push button

Navigate back to Github and refresh the page. Both .py files should be displayed on the page.



REFERENCE NOTES

For further reference and understanding of Git and Github, please reference the below reading materials/videos. The commands used in this presentation are the utmost basic commands used in Github and there are more that can be learnt thru further research.

- ❖ <https://docs.github.com/en/github>
- ❖ <https://www.youtube.com/watch?v=RGOj5yH7evk>
- ❖ <https://www.youtube.com/watch?v=CRIGDDprdOQ&t=61s>



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