Git Hub Presentation

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Agenda

- What is Git?
- What is Github?
- How to Work with Git & Github in Eclipse
  - Commit
  - Push
  - Pull
  - Branching
  - Raising Pull Request (PR)
  - Approve Pull Request(PR)
  - Merging

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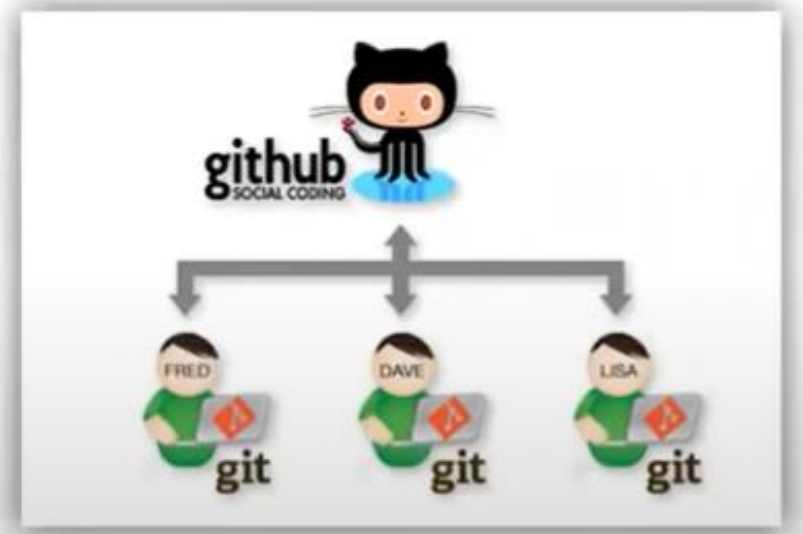
Github Overview

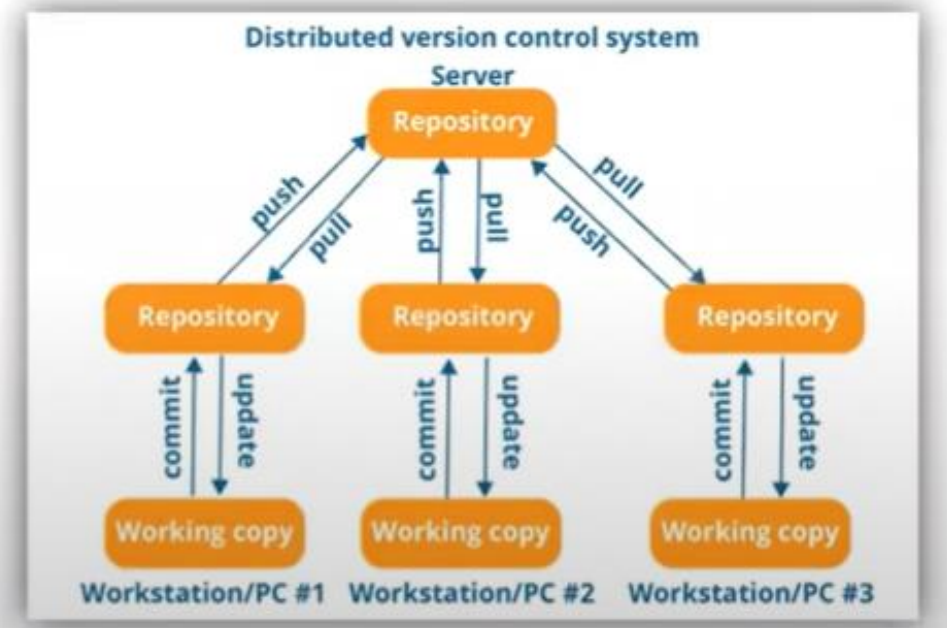
Github is

1. A Version Control System
2. A Publishing Tool
3. A Collaboration Platform

Github

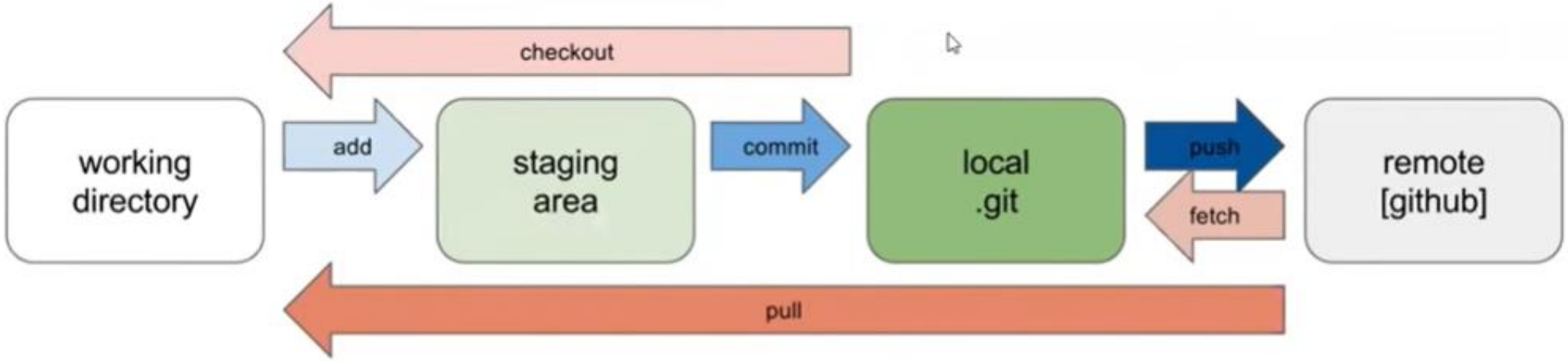
- GitHub is a hosting service for git repositories. Git is the tool, while GitHub is the service to use git.

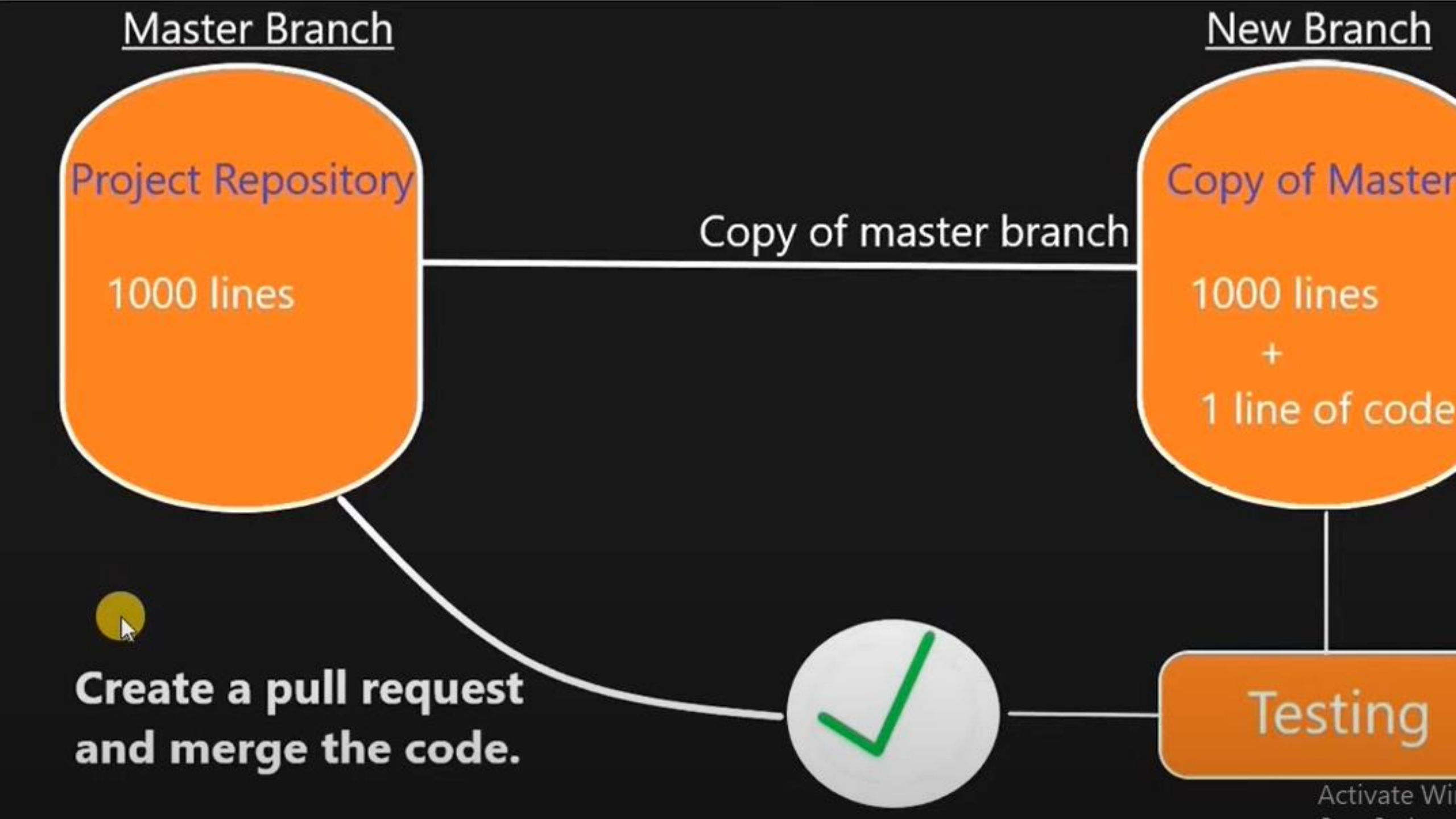




Git

- **Git** is a revision control system used to track changes in computer files. It's a tool to manage your code & file history while coordinating work remotely on those files with others.




Master Branch
New Branch
Project Repository
1000 lines
Copy of master branch
Copy of Master
1000 lines
+
1 line of code
Create a pull request
and merge the code.
Testing

Git & Github Integration

- Branching
- Merging

BASIC GIT COMMANDS

1. git init : To initialize GitHub Repository in your local machine project folder
2. git status : To get the status of files
3. git config : To configure Username and Password
   Ex: global user.name “user-name” and global user.email “email-id”
4. git clone URL : To clone the repository to your local machine
5. git add file-name : To add a single file to GitHub
6. git add . and git add –A : To add all the modified file to GitHub.
7. git commit –m : To commit the changes to GitHub
8. git pull : Get the latest code from the main branch
9. git help : Get the help

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1) Clone Remote Repo to Local Repo (Working directory)
2) Import project from git to workspace
2) Add/modify features/code/Test cases
3) Create new branch in Remote Repo(Github) using Eclipse
4) Add file/s to staging
6) Commit changes to Local Rep(git)
7) Push changes to Remote Rep(Github) from new branch
8) Request PR(Pull Request) for review code

1

1) Create new Project.
2) Create Local(git) repository
3) Add files to Staging
4) Commit changes to Local Repo(git)
5) Push changes to Master branch Remote Repo (Github)

2

Hey Guys, I created new Project on GitHub.
Go head and clone it then continue with your tasks.

Branch X

Branch Y

Branch Z

4

Review Code :

Case 1: Changes required, then provide comments to Team Member
Case 2: Everything good, then provide approval to merge code in to Master branch in Github.

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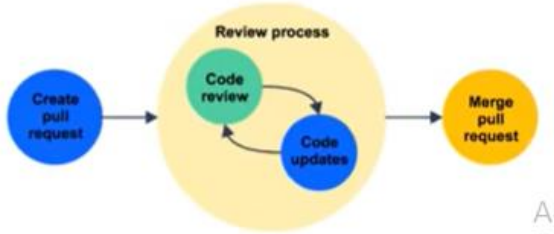
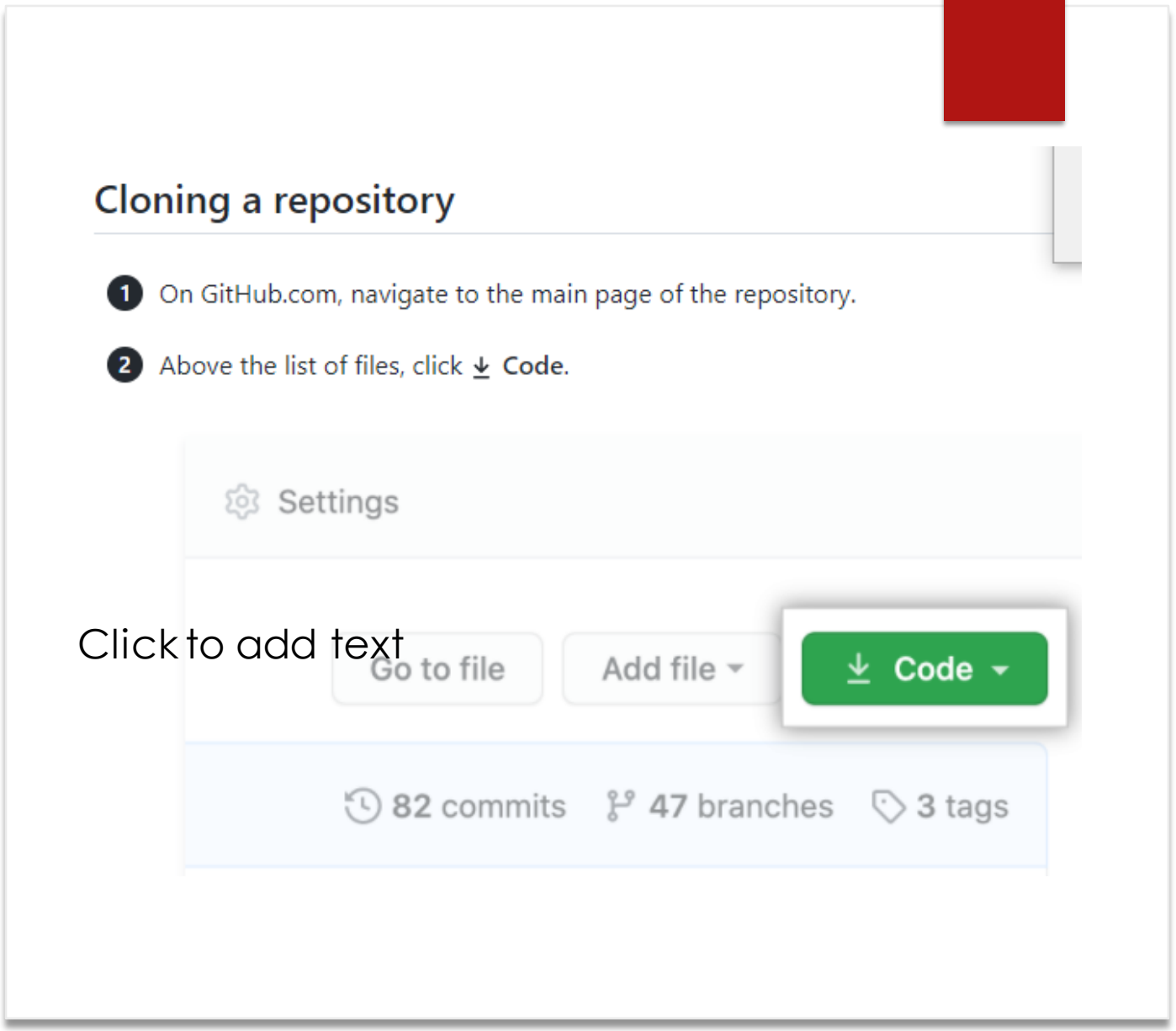
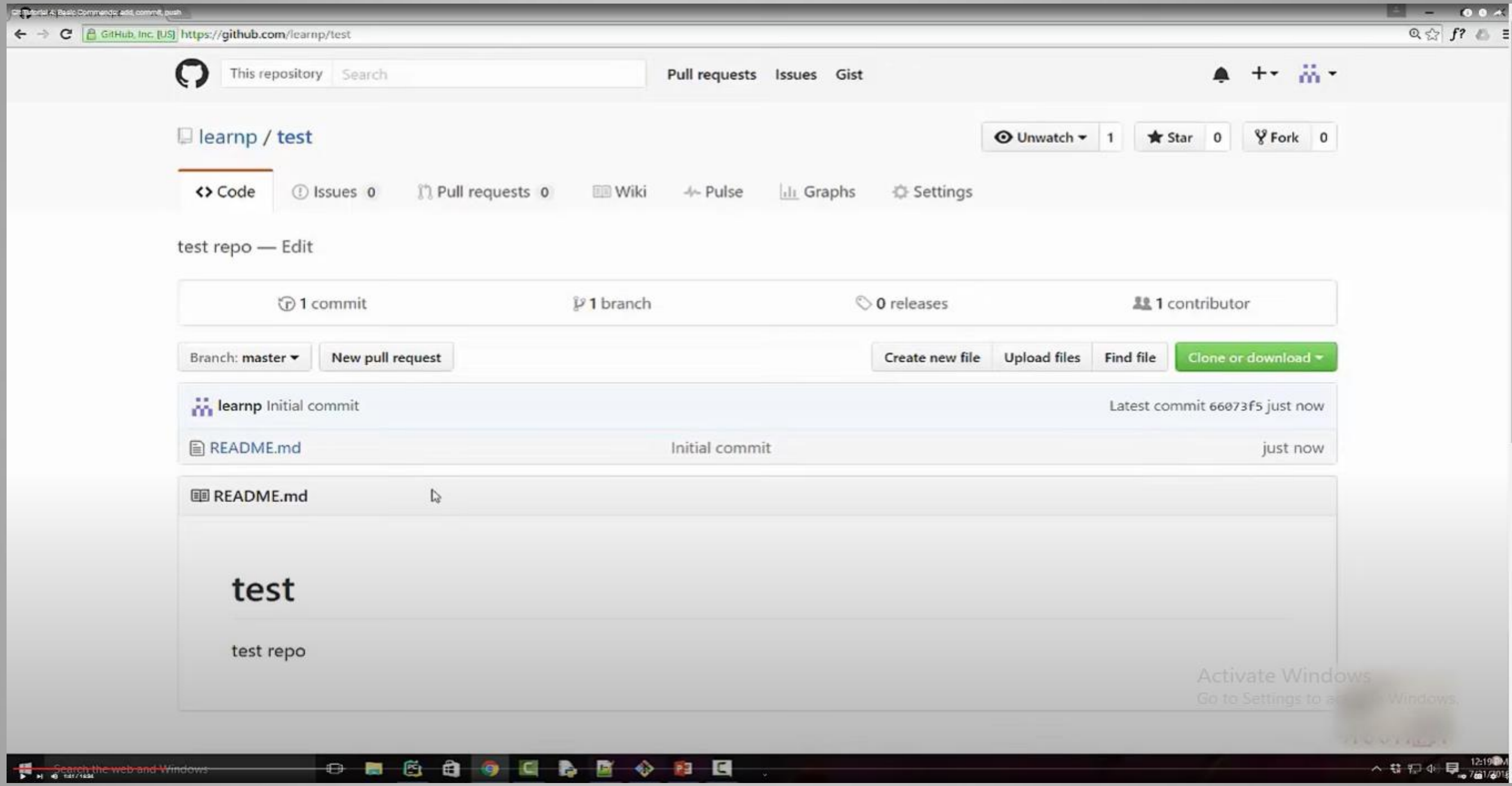
Merge Code with Master Branch

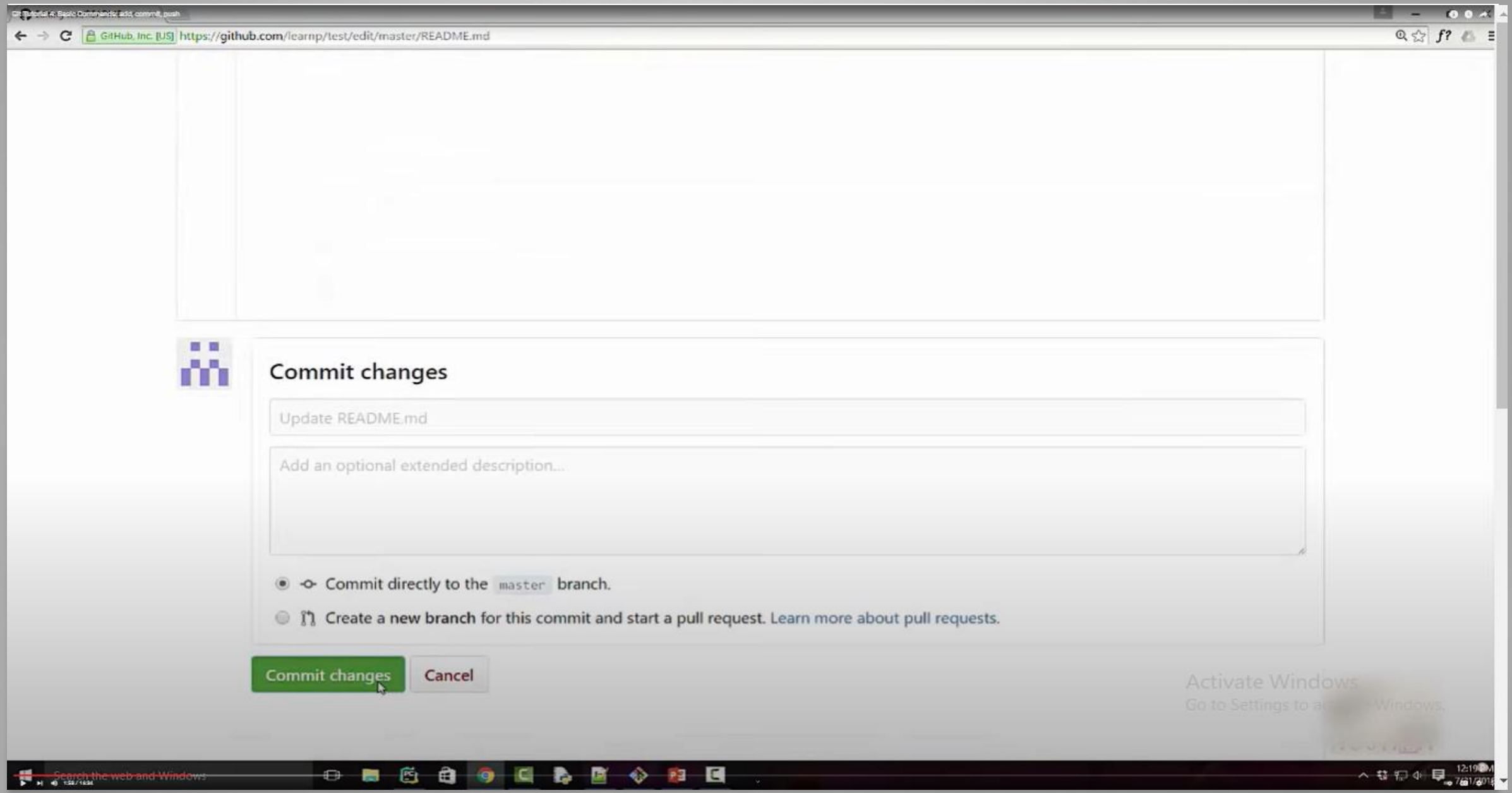


#.To clone the repository using HTTPS, under "Clone with HTTPS", click . To clone the repository using an SSH key, including a certificate issued by your organization's SSH certificate authority, click **Use SSH**, then click . To clone a repository using GitHub CLI, click **Use GitHub CLI**, then click .
#.Open Git Bash.
#.Change the current working directory to the location where you want the cloned directory.
#.Type `git clone`, and then paste the URL you copied earlier.
`#.$ git clone https://github.com/YOUR-USERNAME/YOUR-REPOSITORY`



Click to add text


GitHub, Inc. [US] https://github.com/learnp/test
This repository Search
Pull requests Issues Gist
learnp / test
Unwatch 1
Star 0
Fork 0
Code Issues 0 Pull requests 0 Wiki Pulse Graphs Settings
test repo — Edit
1 commit 1 branch 0 releases 1 contributor
Branch: master New pull request
Create new file Upload files Find file Clone or download
learnp Initial commit
Latest commit 66073f5 just now
README.md Initial commit just now
README.md
test
test repo
Activate Windows
Go to Settings to activate Windows.
Search the web and Windows


GitHub, Inc. [US] https://github.com/learnp/test/edit/master/README.md
Commit changes
Update README.md
Add an optional extended description...
Commit directly to the master branch.
Create a new branch for this commit and start a pull request. Learn more about pull requests.
Commit changes
Cancel
Activate Windows

When and Why to Use PR

1. Propose a change - bug fix, improvement
2. Request help or feedback on your work
3. Request review and discussion of your work
   - do this before merging branch into master

Pull Request

What Happens *after* a Pull Request?

"Interested parties" (the core dev team):

1. Review the changes
2. Test the changes
3. Discuss the value and potential impact
4. Suggest modifications

In Github Flow,

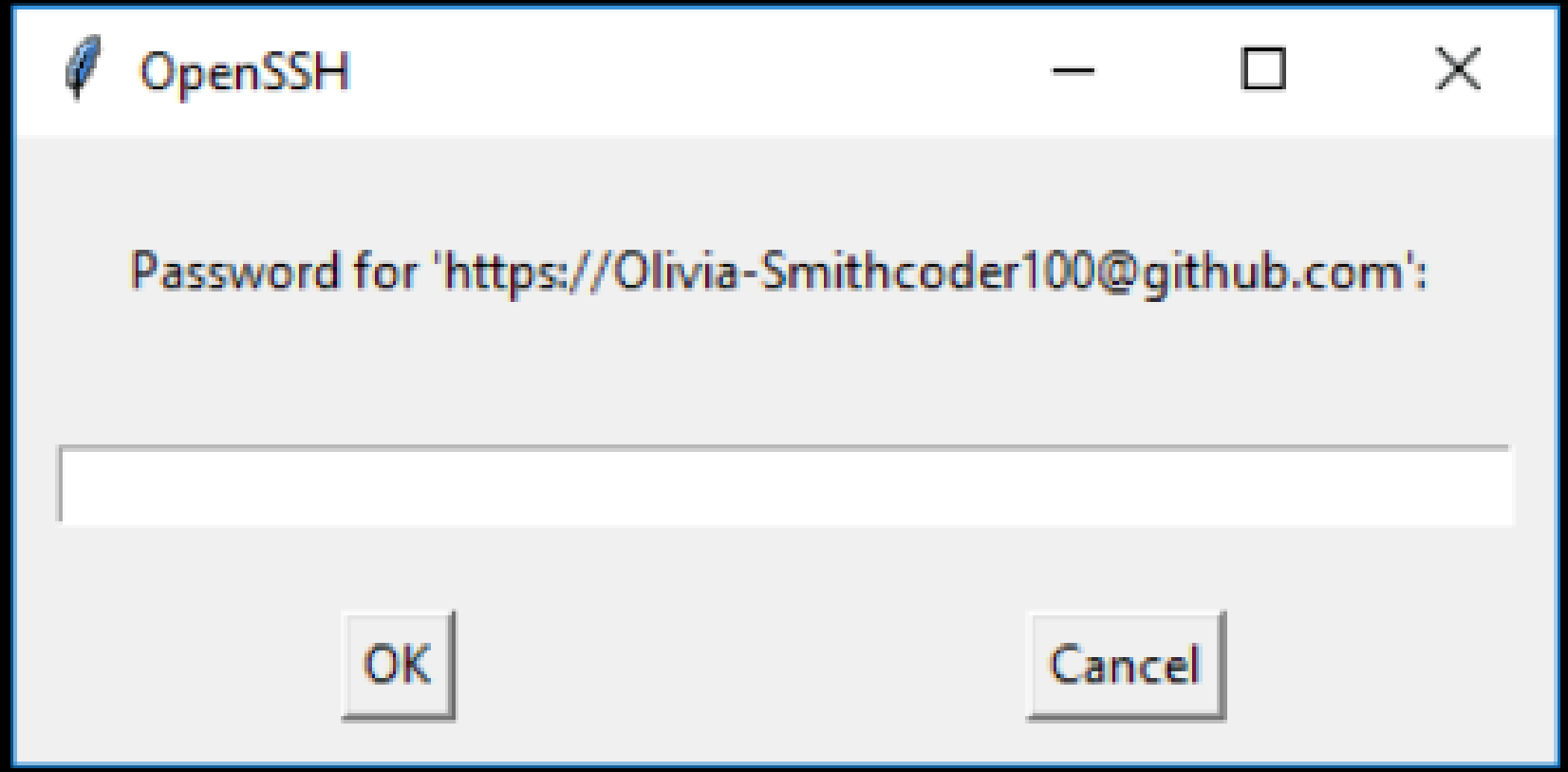
5. Approve changes for merge into master, or give reasons why not.

Push

- #.git push -u origin master is used for pushing local content to GitHub.
- In the code, the origin is your default remote repository name and '-u' flag is upstream, which is equivalent to '-set-upstream.' and the master is the branch, name.
- upstream is the repository that we have cloned the project.
- Fill in your GitHub username and password.

```
Dell@DESKTOP-03TH7JO MINGW64 ~/Downloads/FaceDetect-master/FaceDetect-master (ma
ster)
$ git remote add origin https://github.com/Olivia-Smithcoder100/FaceDetection.gi
t

Dell@DESKTOP-03TH7JO MINGW64 ~/Downloads/FaceDetect-master/FaceDetect-master (ma
ster)
$ git push -u origin master
Username for 'https://github.com': Olivia-Smithcoder100
```



Thank You