# GitHub Basics

**Beginner level**

1. What is GitHub?

   GitHub is an repository hosting serivice for Version control(Version control is a system that records changes to a file or set of files over time so that you can recall specific versions later) it provides the GUI for git.

2. What are the advantages of GitHub?
   Advatages:

   - Can acces repository from the remote location.
   - Multiple users can work on same project.
   - Our Work is never wasted(Any version of the project can be accesed).
   - Braching capabalities.
   - Make use of Cloude Storage.

3. What is commit, push, pull?
   Commit is the process of recording the changes in the Repository.
   Push is used to Upload the changes to the current repository.
   Pull fethes the data from the Repository and Merges it in to Local repository.

4. What is pull request?
   When an project is changed developer creates an Pull request fot the changes to be considerd

5. How to create repository?
   In the upper-right corner of any page, click , and then click New repository.
   In the Owner drop-down, select the account you wish to create the repository on.
   Type a name for your repository, and an optional description.
   Choose to make the repository either public or private. Public repositories are visible to the public, while private repositories are only accessible to you, and people you share them with. For more information, see "Setting repository visibility."
   You can create a README, which is a document describing your project. For more information, see "About READMEs."
   You can create a .gitignore file, which is a set of ignore rules. For more information, see "Ignoring files."
   When you're finished, click Create repository.

6. How to add collaborators?
   Ask for the username of the person you're inviting as a collaborator.
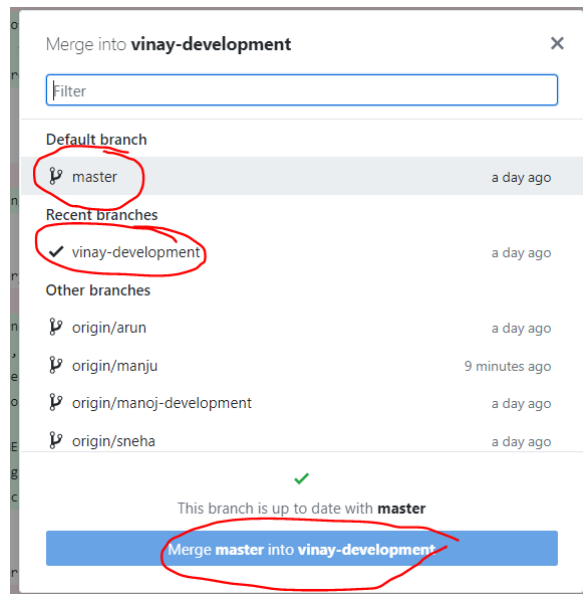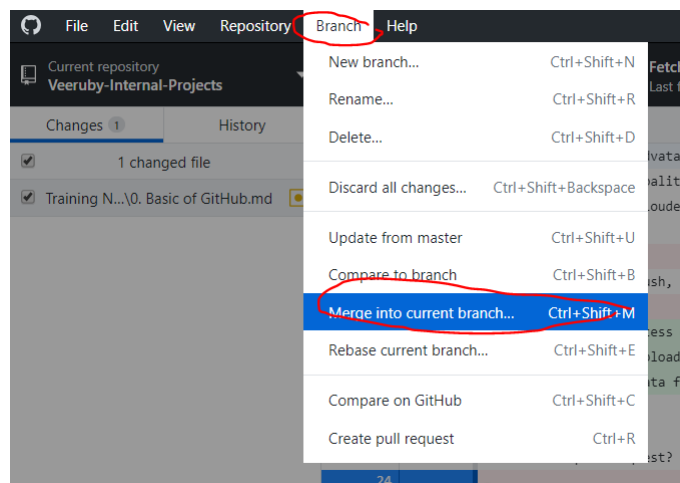   Under your repository name, click Settings.
   In the left sidebar, click Collaborators.
   Under "Collaborators", start typing the collaborator's username.
   Select the collaborator's username from the drop-down menu.
   Click Add collaborator

7. How to merge master to your branch? (Attach screenshots).

GitHub    File   Edit   View   Repository   Branch   Help

Current repository
Veeruby-Internal-Projects

New branch...              Ctrl+Shift+N
Rename...                  Ctrl+Shift+R
Delete...                  Ctrl+Shift+D

Changes 1        History
1 changed file
Training N...\0. Basic of GitHub.md

Discard all changes...    Ctrl+Shift+Backspace

Update from master        Ctrl+Shift+U
Compare to branch         Ctrl+Shift+B
Merge into current branch...   Ctrl+Shift+M
Rebase current branch...   Ctrl+Shift+E

Compare on GitHub         Ctrl+Shift+C
Create pull request       Ctrl+R

Merge into **vinay-development**                    ✕

Filter

Default branch
master                                              a day ago

Recent branches
✓ vinay-development                                  a day ago

Other branches
origin/arun                                          a day ago
origin/manju                                      9 minutes ago
origin/manoj-development                             a day ago
origin/sneha                                         a day ago

✓
This branch is up to date with **master**

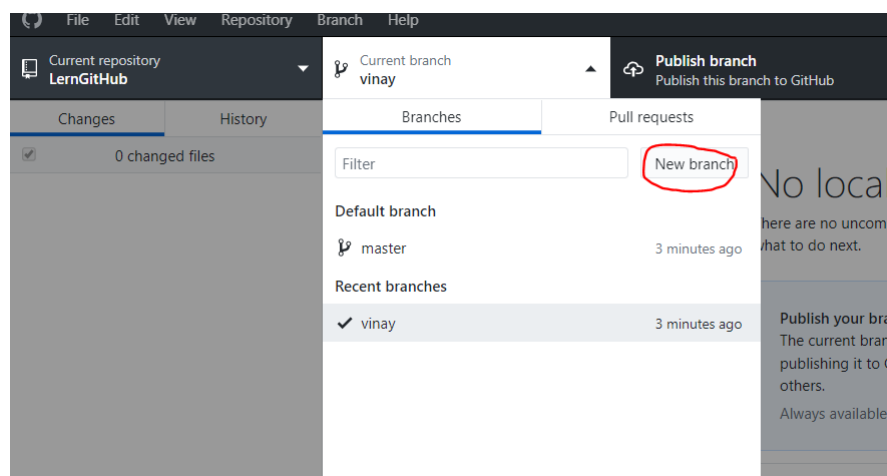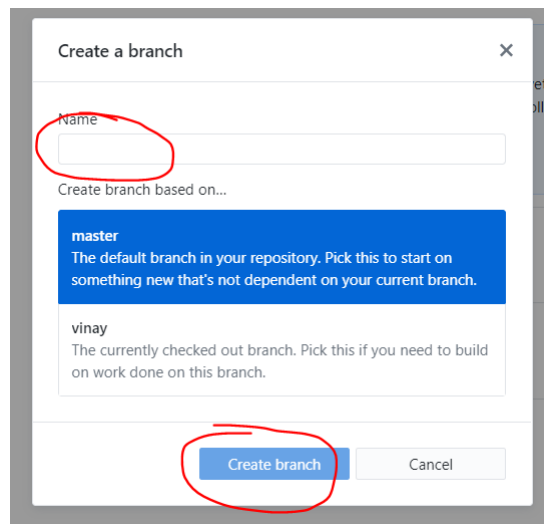Merge **master** into **vinay-development**

8. How to merge your branch into master? (Attach screenshots).

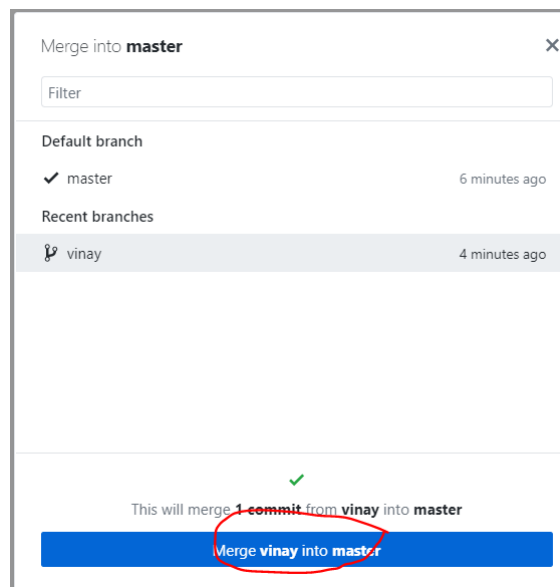Follow Above Steps but the only difference is to keep the Current Branch to Master.

9. How to create pull request?  (Attach screenshots).

10. How to create branch?  (Attach screenshots).

File   Edit   View   Repository   Branch   Help

Current repository
LernGitHub

Current branch
vinay

Publish branch
Publish this branch to GitHub

Changes        History
0 changed files

Branches        Pull requests

Filter                                    New branch

Default branch
master                                    3 minutes ago

Recent branches
✓ vinay                                   3 minutes ago

No local

here are no uncomn
what to do next.

Publish your bran
The current branc
publishing it to G
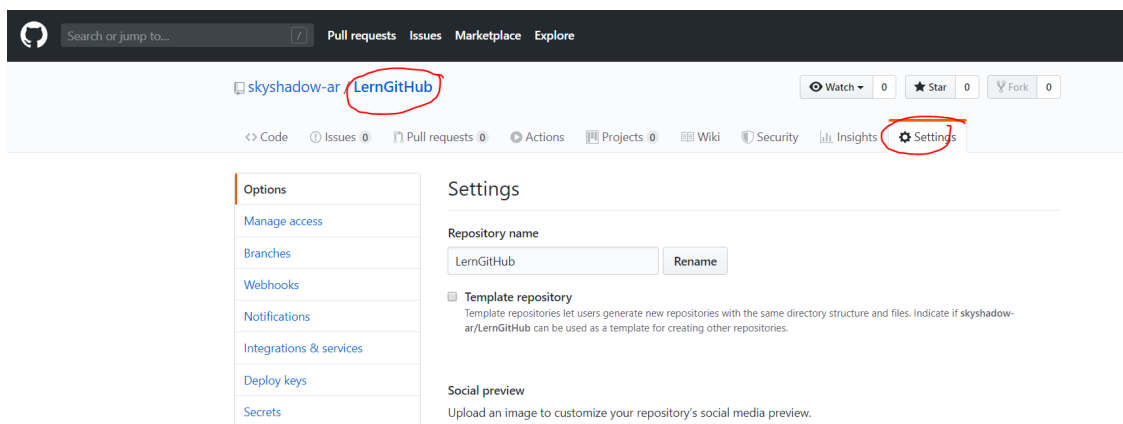others.

Always available

11. How to delete branch? (Attach screenshots).



12. How to delete repository? (Attach screenshots).

Go to Settings in Git Hub:



Scroll Down and click on Delete Repository:

## Danger Zone

**Make this repository private**
Hide this repository from the public.

**Make private**

**Transfer ownership**
Transfer this repository to another user or to an organization where you have the ability to create repositories.

**Transfer**

**Archive this repository**
Mark this repository as archived and read-only.

**Archive this repository**

**Delete this repository**
Once you delete a repository, there is no going back. Please be certain.

**Delete this repository**

## Intermediate level

12. What is fork?

13. How to create fork?  (Attach screenshots).

14. How to merge changes from fork to master project?  (Attach screenshots).

15. How to Undo commit changes?  (Attach screenshots).

16. What is revert?

17. How to revert changes?  (Attach screenshots).

## Advanced level

18. What is LFS?

19. How to install LFS and add LFS file into it?  (Attach screenshots).

20. How to push LFS commits?  (Attach screenshots).