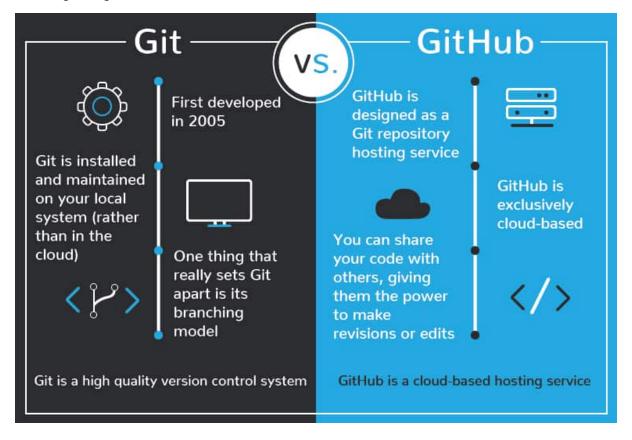
How to install git on Windows

Objective:

At the end of this session, Students should be able to

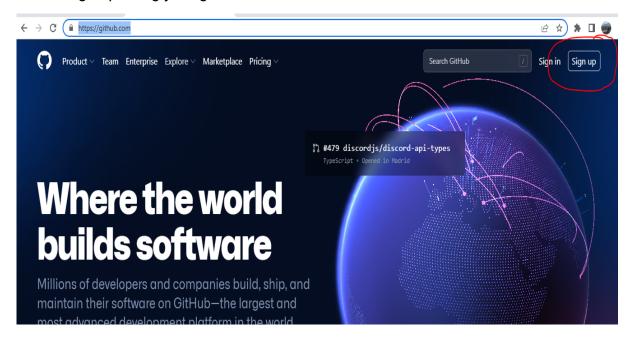
- 1. Understand the usage of git
- 2. Create github account and install git locally on Windows
- 3. Create repository and clone them
- 4. Familarize with commands like: clone, add, commit, push, pull

• Usage of git?



Step 1: Create a github account

- 1. Access the link https://github.com/
- 2. Sign up using your gmail account

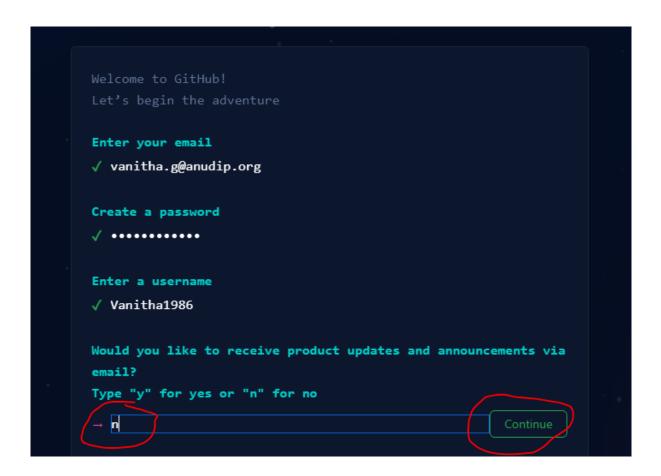


3. Enter your mail and click on continue and create a password and click on continue and then give a user name and click on continue, then give yes or no, if you want to receive any product updates and click on continue

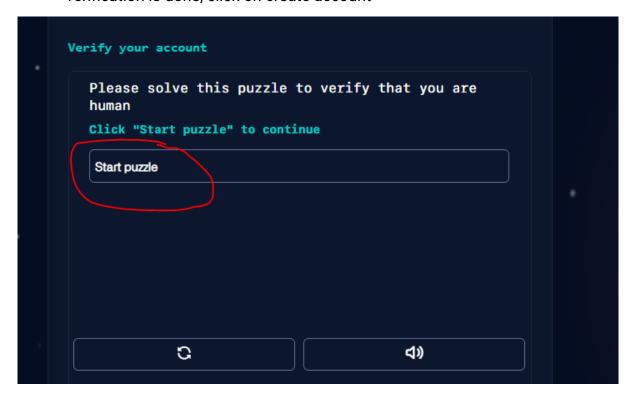








4. Solve the Puzzle to authenticate yourself, click on Start puzzle, once verification is done, click on create account

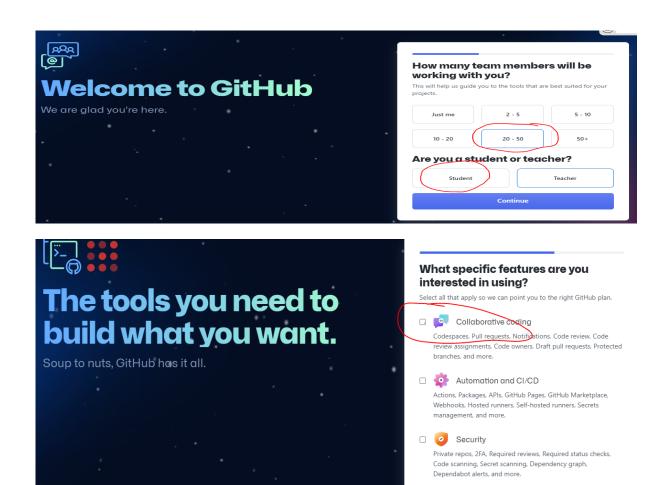




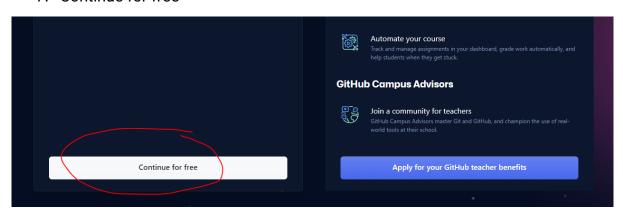
5. Enter the code you have received in your mailing account



6. Select a student option for yourself, click on continue and select what for it you are using



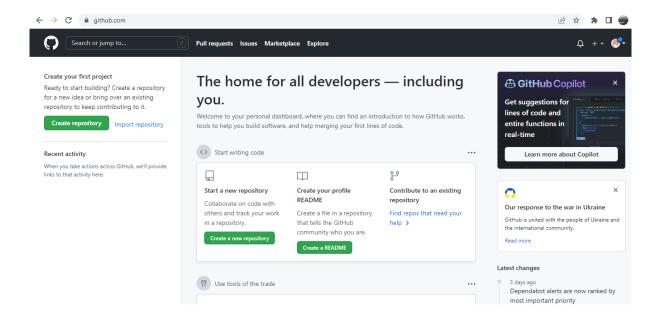
7. Continue for free



□ Client Apps

GitHuh Mohile GitHuh CII and GitHuh Deckton

8. Account is created, your dashboard should look like this

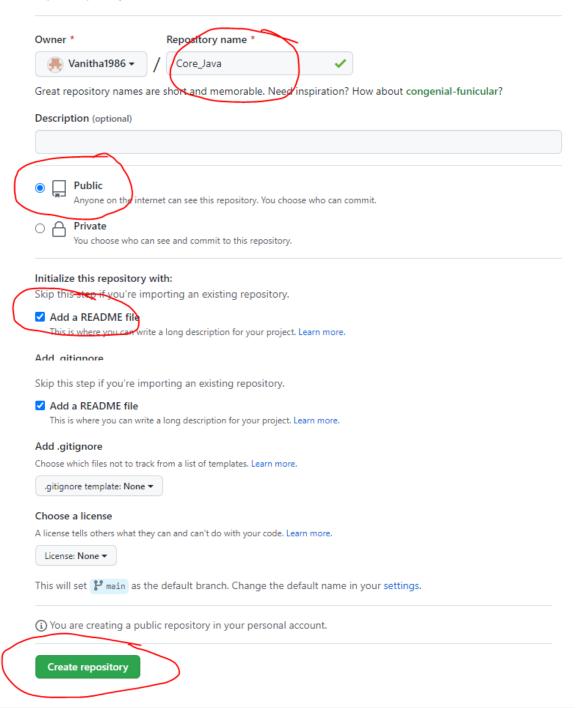


Step 2: Creating a repository in Github

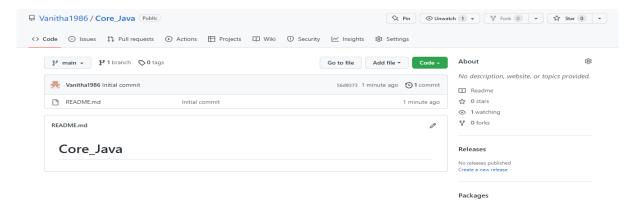
 Click on the + icon and select New repository, give a repository name, let it be public and select the option of add a Readme file and click on create repository option.

Create a new repository

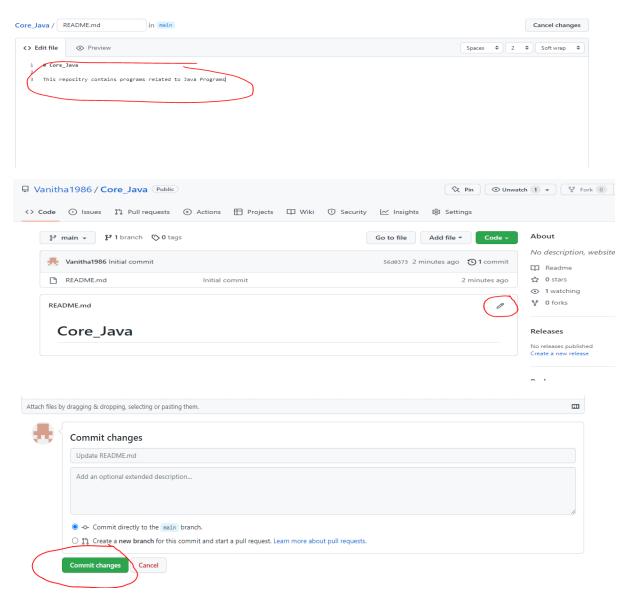
A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.



2. You should be able to see the dashboard as below

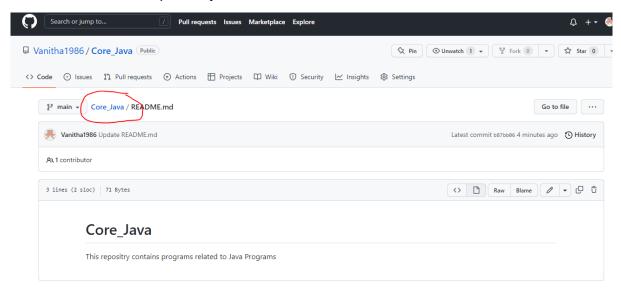


3. Click on the pencil icon and just add few lines of description for the repository, scroll down and click on commit changes

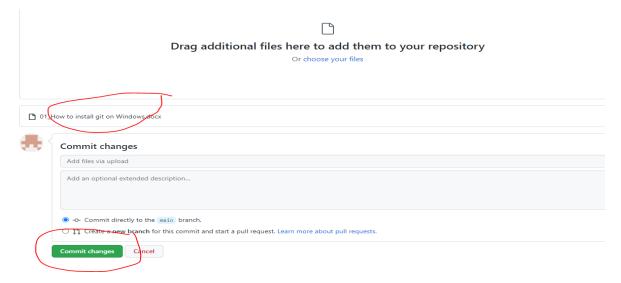


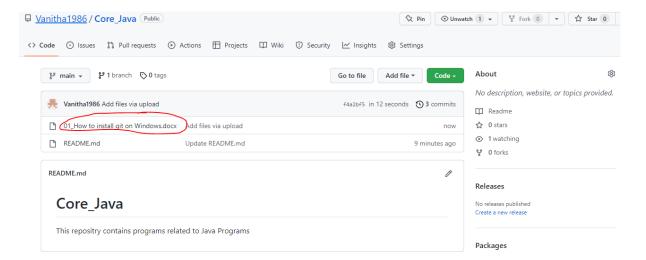
Step 3: Add files to Github account

1. Click on the repository created



2. Click on add file→Upload file, browse for any of the files from local machine, upload and click on commit changes, then you should be able to see the file you have uploaded





Step 4: Installing git on windows

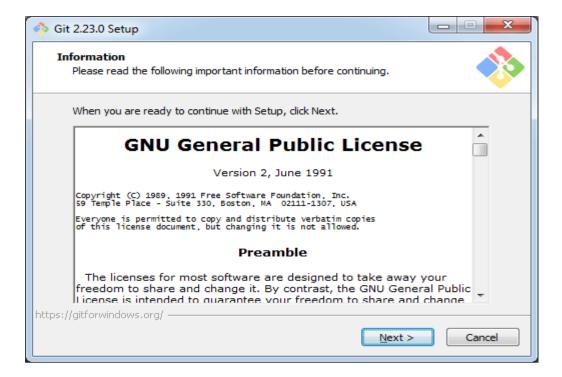
1. To download the Git installer, visit the Git's official site and go to download page. The link for the download page is https://git-scm.com/downloads. The page looks like as



Click on the package given on the page as **download 2.23.0 for windows**. The download will start after selecting the package. Download the latest version, 32 bit/64 bit.

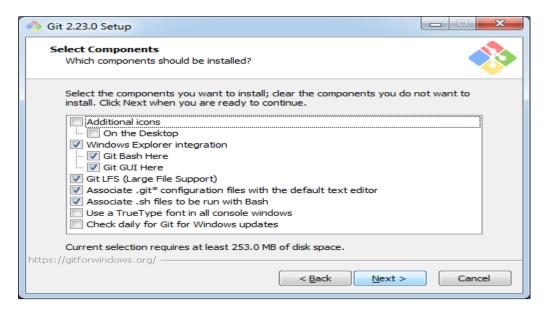
Now, the Git installer package has been downloaded.

2. Click on the downloaded installer file and select **yes** to continue. After the selecting **yes** the installation begins, and the screen will look like as



Click on next to continue.

3. Default components are automatically selected in this step. You can also choose your required part.

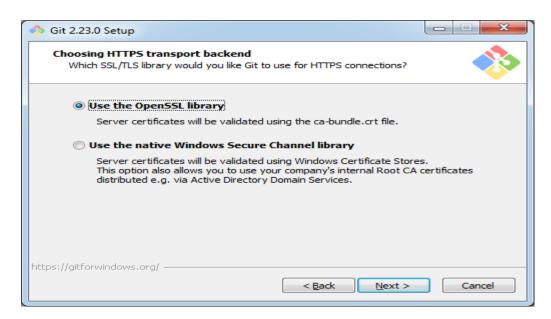


Click next to continue.

4. The default Git command-line options are selected automatically. You can choose your preferred choice. Click **next** to continue.

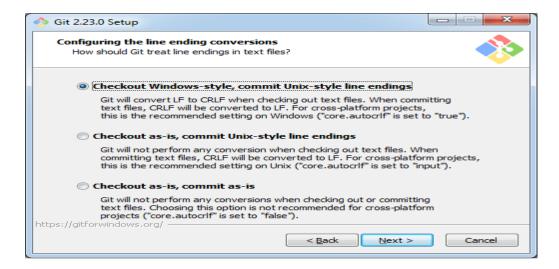


5. The default transport backend options are selected in this step. Click **next** to continue.

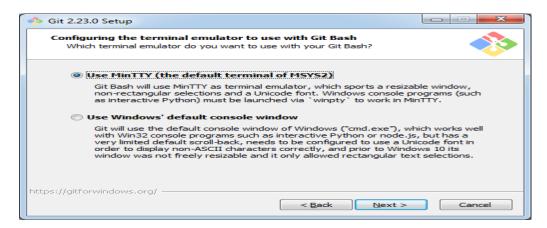


6. Select your required line ending option and click next to continue.

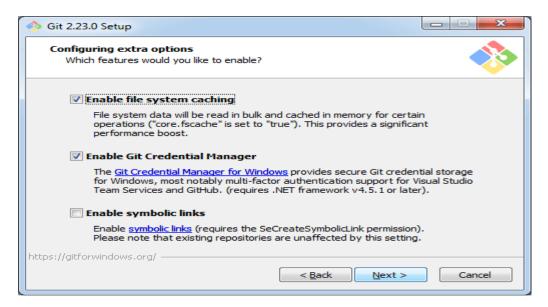




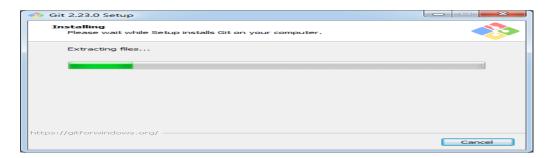
7. Select preferred terminal emulator clicks on the **next** to continue.



8. This is the last step that provides some extra features like system caching, credential management and symbolic link. Select the required features and click on the **next** option.

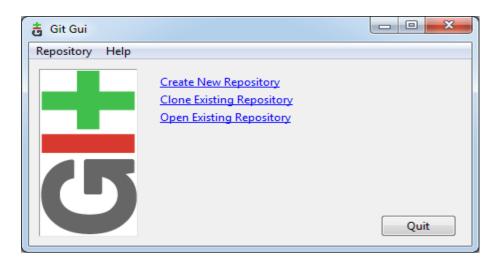


9. The files are being extracted in this step.



Therefore, The Git installation is completed. Now you can access the **Git Gui** and **Git Bash**.

The Git Gui looks like as



It facilitates with three features.

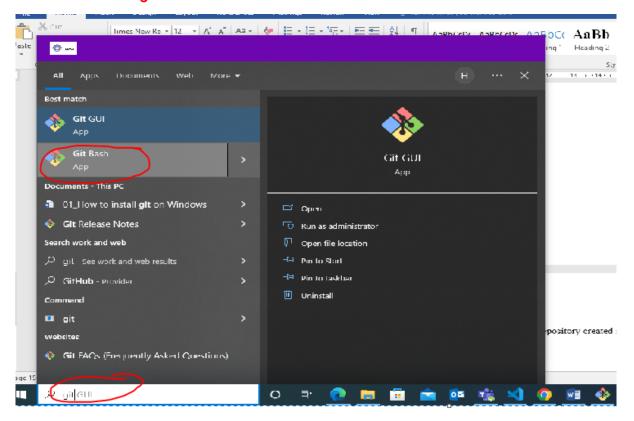
- o Create New Repository
- o Clone Existing Repository
- o Open Existing Repository

The Git Bash looks like as

```
MINGW64:/c/Users/HiMaNshU/Desktop

HiMaNshU@HiMaNshU-PC MINGW64 ~/Desktop
S
```

Step 5: Launch the gitbash console, create a directory and clone the repository created in github

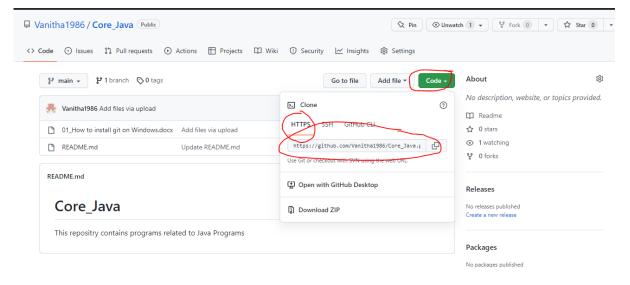


Commands:

Creating a directory: mkdir repo

Changing a directory: cd repo

Clone the repository created, go the github account you have created



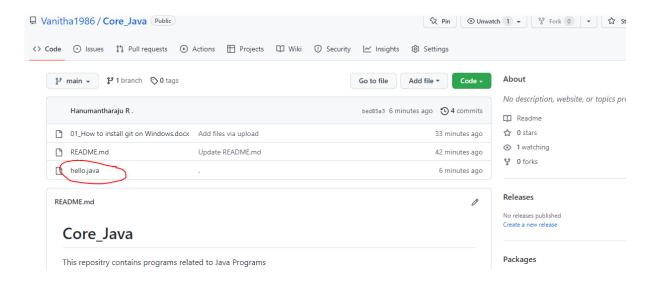
Copy the HTTPS link and use the command clone, as below

```
mkdir repository
 cd repository
  anumanthr@hanumanthr-LT MINGW64 ~/reposito
S git clone https://github.com/Vanitha1986/Core_Java.git
Cloning into 'Core_Java'...
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 9 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (9/9), 1.12 MiB | 555.00 KiB/s, done.
  anumanthr@hanumanthr-LT MINGW64 ~/repository
 ore_Java/
 nanumanthr@hanumanthr-LT MINGW64 ~/repository
$ cd Core_Java/
 nanumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)
 '01_How to install git on Windows.docx' README.md
  anumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)
$ vim hello.java
$ git add
warning: in the working copy of 'hello.java', LF will be replaced by CRLF the next time Git touches it
  anumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)
$ git commit -m .
[main bed85a3] .
 Committer: Hanumantharaju R <hanumanthr@india.tejasnetworks.com>
Your name and email address were configured automatically based on your username and hostname. Please check that they are accurate. You can suppress this message by setting them explicitly. Run the following command and follow the instructions in your editor to edit your configuration file:
      git config --global --edit
 After doing this, you may fix the identity used for this commit with:
```

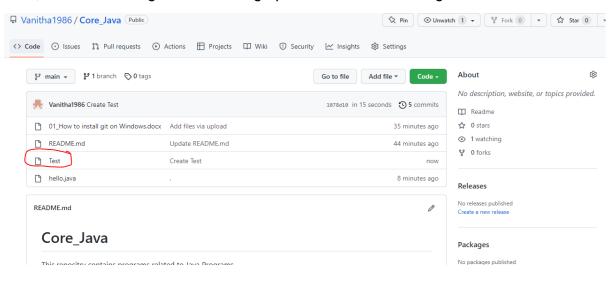
```
hanumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)
$ git push
info: please complete authentication in your browser...
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 364 bytes | 121.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Vanitha1986/Core_Java.git
f4a2bf5..bed85a3 main -> main
```

Refresh the github page, you should be able to see the hello, java file





Now, create a file in github and run git pull command in local git



Run git pull command, run ls command to see the file which was created in github account

```
hanumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)

$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 639 bytes | 30.00 KiB/s, done.
From https://github.com/Vanitha1986/Core_Java
    bed85a3..1078d10 main -> origin/main
Updating bed85a3..1078d10
Fast-forward
Test | 1 +
1 file changed, 1 insertion(+)
create mode 100644 Test

hanumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)

1s
101_How to install git on Windows.docx' README.md Test hello.java
hanumanthr@hanumanthr-LT MINGW64 ~/repository/Core_Java (main)

$ |
```

Summary:

- Learnt how to create github account
- Learnt how to install git in windows
- Explored the use some of the git commands like: clone, add, commit, push and pull