Git Commands:

• git --version:

```
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ git --version
git version 2.49.0.windows.1
```

shows the current version of the git which is already installed on the system

mkdir Git:

creates a new directory

cd Git:

changes the current working directory

git init:

initialize the empty Git repository in the current directory

Is:

list the files in the directory

Is -a:

list files also hidden files in the directory

After creating text file, if we write Is command it is showing file.txt

- git config –global user.name "user name":
 set the name of user written in double quotation globally
- git config –global user.email "user email":

set the email of user written in double quotation globally

```
gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.name "Gayatri Sahu"

gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email "gayatri.sahu0890@gmail.com"

gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.name

gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email "gayatri.sahu0890@gmail.com"

gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email "gayatri.sahu0890@gmail.com"

gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.name
gayatelAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.name
gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email
gayateLAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email
gayateLaPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git config --global user.email
gayateLaPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
```

- echo hello >> file.txt:
 after creating a text file in the current folder , hello is written by this command in file.txt
- git mv file.txt file1.txt:

it changes the filename file to file1 without creating a new file

git add file.txt:

add file.txt to the staging environment(after finishing part or most of work, we should add the file in staging area). Staging files are files that are ready to be committed to the repository we are working

```
gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git add file.txt
warning: in the working copy of 'file.txt', LF will be replaced by CRLF the next
time Git touches it

gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git status
on branch master

No commits yet

Changes to be committed:
    (use "git rm --cached cfile>..." to unstage)
    new file: file.txt

gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git commit -m "file updated"
[master (root-commit) alsa2148] file updated
1 file changed, 1 insertion(+)
create mode 100644 file.txt

gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git status
On branch master
nothing to commit, working tree clean

gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git status
Gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git status
On branch master
nothing to commit, working tree clean

gayat@LAPTOP-7CELGIM7 MINGW64 -/OneDrive/Desktop/GIT (master)
$ git log
commit alsa148bdfb95d680def199f56670f21098add1a (MEAD -> master)
Author: Gayatri Sahu qayatri.sahu0890gma11.com>
Date: wed Apr 2 15:22:26 2025 +05530
```

git log:

it shows history of commit of current repository

git checkout -f:

it backtracking the file . Discard made the changes made to the specified file and reverse it back to the version in the last commit

git Is-files:

only committed files will be displayed in the list

git add –all:

add all modified and new files to the staging area without specifying particular filename

git status:

show the current state of the repository, including tracked and untracked files, modified files and branch information. In green colour the filename file.txt shown, which is ready to be staged

- git commit -m "message": commit keep track of the progress and it is a save point. It performs commit with a message
- git branch 2 times tab click:
 show all the branches present in the directory
- git branch "wipro": creates a new branch wipro
- git checkout wipro: switches the current branch name to wipro branch

```
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ git branch
HEAD
         master
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ git branch "Wipro"
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ git branch
HEAD
         Wipro
                   master
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ git checkout Wipro
Switched to branch 'Wipro'
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (Wipro)
$ git status
On branch Wipro
nothing to commit, working tree clean
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (Wipro)
$ git status
On branch Wipro
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (Wipro)
$ git ls-files
 ile1.txt
file2.txt
```

• git checkout -b wipro:

it creates a new branch wipro and switches to it

git merge <branch>:

it merges the specified branch to the current branch

• git rm file.txt:

Removes a file from both the working directory and the repository, staging the deletion

git restore file.txt:

Restores the file in the working directory to its state in the last commit.

git clone url:

to clone github repository locally, we use this command

```
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone (master)
$ 1s
wipro/
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone (master)
$ cd wipro/
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone/wipro (main)
README.md index.html
 $ git ls-files
README.md
index.html
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone/wipro (main)
$ cd ..
     at@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone (master)
$ cd ..
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
$ mkdir clone1
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT (master)
  cd clone1
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master)
$ git clone1 https://github.com/sahugayatri/wipro.git
git: 'clone1' is not a git command. See 'git --help'.
The most similar command is clone
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master) $ git clone https://github.com/sahugayatri/wipro.git Cloning into 'wipro'...
$ git clone https://gs.
Cloning into 'wipro'...
remote: Enumerating objects: 19, done.
remote: Counting objects: 100% (19/19), done.
remote: Compressing objects: 100% (13/13), done.
remote: Total 19 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Reserving objects: 100% (19/19) 6 13 vip | 522 00 vip/s done
```

To delete a file after cloning into a folder:

```
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master)
$ ls
wipro/
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master)
$ cd wipro/
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro (main)
$ git ls-files
2141019146/hello.txt
README.md
index.html
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro (main)
$ cd ..
```

```
NINGW64:/c/Users/gayat/OneDrive/Desktop/GIT/clone1/wipro/2141019146
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master)
$ 75
wipro/
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1 (master)
$ cd wipro/
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro (main)
2141019146/ README.md index.html
                7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro (main)
$ cd 2141019146
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ ls
hello.txt
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 ls -a
/ ../ hello.txt
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 rm hello.txt
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git ls-files
hello.txt
    at@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)
 no changes added to commit (use "git add" and/or "git commit -a")
MINGW64:/c/Users/gayat/OneDrive/Desktop/GIT/clone1/wipro/2141019146
Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)

deleted: hello.txt
no changes added to commit (use "git add" and/or "git commit -a")
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git commit -m "hello.txt deleted"
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)
no changes added to commit (use "git add" and/or "git commit -a")
 payat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 touch file.txt
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 echo wipro >> file.txt
 ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Changes not staged for commit:

(use "git add/rm <file>..." to update what will be committed)

(use "git restore <file>..." to discard changes in working directory)
Untracked files:
(use "git add <file>..." to include in what will be committed)
no changes added to commit (use "git add" and/or "git commit -a")
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git add file.txt
warning: in the working copy of '2141019146/file.txt', LF will be replaced by CRLF the next time Git touch
es it
 gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
```

\$ git status

```
gayat@LAPTOP-7CELGIM7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git commit -m "file is updated"
[main 682b7d9] file is updated
1 file changed, 1 insertion(+)
create mode 100644 2141019146/file.txt
gayat@LAPTOP-7CELGIM7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git commit -m "file is updated"
[main 682b7d9] file is updated
1 file changed, 1 insertion(+)
create mode 100644 2141019146/file.txt
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git rm file.txt
rm '2141019146/file.txt'
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git ls-files
hello.txt
gayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
$ git rm hello.txt
rm '2141019146/hello.txt'
   ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
 $ git ls-files
  ayat@LAPTOP-7CELG1M7 MINGW64 ~/OneDrive/Desktop/GIT/clone1/wipro/2141019146 (main)
gayatetAPTOP-/CELGIM/ MINGW64 ~/GNEDFTVE/DESKLOP/G

$ git status

On branch main

Your branch is ahead of 'origin/main' by 1 commit.

(use "git push" to publish your local commits)
Changes to be committed:

(use "git restore --staged <file>..." to unstage)

deleted: file.txt

deleted: hello.txt
```