Git Command

git init: initialize a new repository

git add: It will move the files from working directory to staging area,

where the files are commited.

Git commit: Any file which are commited is said to be commited state.

Git remote: it is used to create, view, delete connection to other repositories

Git status: it displays the state of the working directory and the staging area

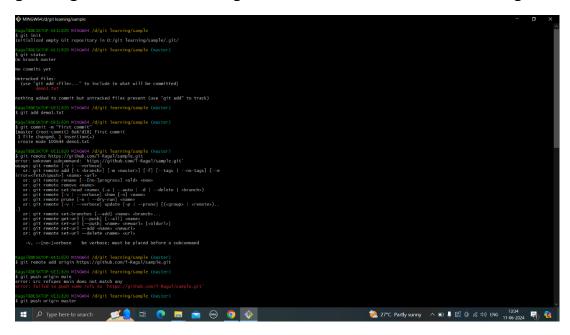**Git push**: it uploads a file to remote repository

Git reset: used to undo the changes in the working directory.
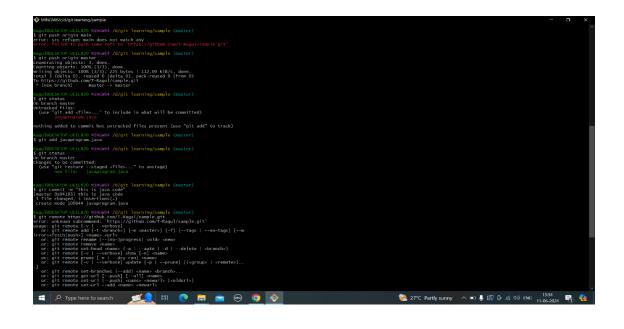
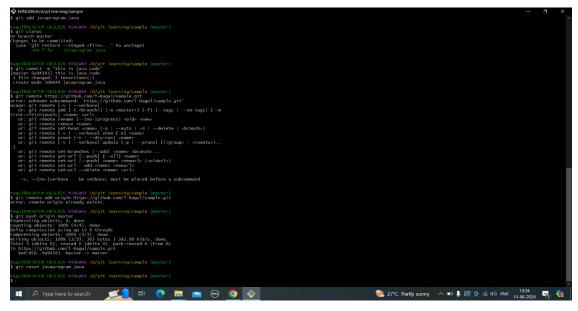**git checkout -b**: creating and switching to the branch

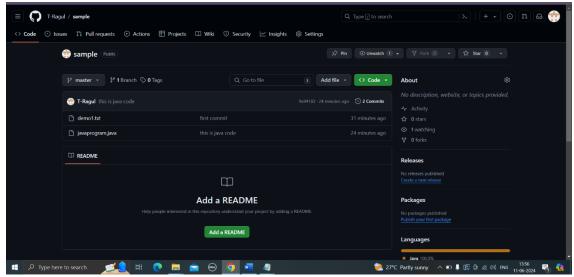**git checkout branch**: It is used to switch to the branch

git branch: to see all the branch

git merge: combine the changes from two or more branch into single branch

```
Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'https://github.com/T-Ragul/sample.git'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 225 bytes | 112.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/T-Ragul/sample.git
 * [new branch]      master -> master

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        javaprogram.java

nothing added to commit but untracked files present (use "git add" to track)

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git add javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git commit -m "this is java code"
[master 9a94183] this is java code
 1 file changed, 5 insertions(+)
 create mode 100644 javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git remote https://github.com/T-Ragul/sample.git
error: unknown subcommand: 'https://github.com/T-Ragul/sample.git'
usage: git remote [-v | --verbose]
   or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
   or: git remote rename [--[no-]progress] <old> <new>
   or: git remote remove <name>
   or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]

   or: git remote set-branches [--add] <name> <branch>...
   or: git remote get-url [--push] [--all] <name>
   or: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
```



```
$ git add javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git commit -m "this is java code"
[master 9a94183] this is java code
 1 file changed, 5 insertions(+)
 create mode 100644 javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git remote https://github.com/T-Ragul/sample.git
error: unknown subcommand: 'https://github.com/T-Ragul/sample.git'
usage: git remote [-v | --verbose]
   or: git remote add [-t <branch>] [-m <master>] [-f] [--tags | --no-tags] [--mirror=<fetch|push>] <name> <url>
   or: git remote rename [--[no-]progress] <old> <new>
   or: git remote remove <name>
   or: git remote set-head <name> (-a | --auto | -d | --delete | <branch>)
   or: git remote [-v | --verbose] show [-n] <name>
   or: git remote prune [-n | --dry-run] <name>
   or: git remote [-v | --verbose] update [-p | --prune] [(<group> | <remote>)...]

   or: git remote set-branches [--add] <name> <branch>...
   or: git remote get-url [--push] [--all] <name>
   or: git remote set-url [--push] <name> <newurl> [<oldurl>]
   or: git remote set-url --add <name> <newurl>
   or: git remote set-url --delete <name> <url>

  -v, --[no-]verbose    be verbose; must be placed before a subcommand

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git remote add origin https://github.com/T-Ragul/sample.git
error: remote origin already exists.

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git push origin master
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), 383 bytes | 383.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/T-Ragul/sample.git
   8a6d18..9a94183  master -> master

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ git reset javaprogram.java

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/sample (master)
$ |
```

Git Branch Example:

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo

$ git init

Initialized empty Git repository in D:/git learning/gitbranchdemo/.git/

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git add .

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git commit -m "index commit"

[master (root-commit) 271f71d] index commit

 1 file changed, 0 insertions(+), 0 deletions(-)

 create mode 100644 index.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git checkout -b feature1

Switched to a new branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git add .

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git commit -m "login and register"

[feature1 b5ff45f] login and register

 2 files changed, 2 insertions(+)

 create mode 100644 loginfeature1.txt

create mode 100644 registerfeature1.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git branch

* feature1

  master

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git checkout feature1

Switched to branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git checkout -b feature2branch

Switched to a new branch 'feature2branch'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

$ git add .

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo
(feature2branch)

$ git commit -m "added dashboard"

[feature2branch 87658a6] added dashboard

1 file changed, 0 insertions(+), 0 deletions(-)

 create mode 100644 dashboardfeature2.txt

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature2branch)

$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git checkout feature1

Switched to branch 'feature1'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature1)

$ git checkout master

Switched to branch 'master'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (master)

$ git checkout feature2branch

Switched to branch 'feature2branch'

Ragul@DESKTOP-UEIL820 MINGW64 /d/git learning/gitbranchdemo (feature2branch)

$