GIT Commands

git init :

To initialize the local repository.

```
DELL@DELL-7490CH11 MINGW64 /d/new_git
$ git init
Initialized empty Git repository in D:/new_git/.git/
```

Creating username and respective mail ID:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git config --global user.name "manish"

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git config --global user.mail "manishhammagi@gmail.com"
```

Creating file :

touch <file name> :

To create file

```
DELL@DELL-7490CH11 MINGW64 /d/new_git (master)
$  touch file1
```

git add <file name>:

It will take snapshot of the file to the staging area.

```
DELL@DELL-7490CH11 MINGW64 /d/new_git (master)
$ git add file1
```

git commit -m "<message>" :

It will commits and save the file to the local repo.

```
DELL@DELL-7490CH11 MINGW64 /d/new_git (master)
$ git commit -m "Adding file"
[master (root-commit) 918c2f7] Adding file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file1
```

git status :

It will give which file are yet to commit.

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git status
On branch master
nothing to commit, working tree clean
```

git log :

To check the information of all the file

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git log
commit f5d86de98cd474dfefd43e0ed0a4fcd7ed3bd987 (HEAD -> master)
Author: manish <manishhammagi@gmail.com>
Date:   Tue Aug 6 11:40:27 2024 +0530

    adding file2

commit b031ae723050839dfe99ed52693a76ca1aa346b2
Author: manish <manishhammagi@gmail.com>
Date:   Tue Aug 6 11:39:54 2024 +0530

    adding file1
```

git branch <branch name>:

To create branch

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git branch feature1
```

git branch :

To check how many branches are there

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git branch
  feature1
* master
```

git checkout <branch name>:

To switch the branch

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git checkout feature1
Switched to branch 'feature1'
```

git merge <branch name>:

to merge the branch to the master

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git merge feature1
Updating f5d86de..714c456
Fast-forward
 file3 | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file3
```

git cherry-pick <commitID>:

to copy particular latest commited

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git log --oneline
7b6a45b (HEAD -> master) adding file4
714c456 (feature1) adding file3
f5d86de adding file2
b031ae7 adding file1

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git checkout feature2
Switched to branch 'feature2'

DELL@DELL-7490CH11 MINGW64 /d/git_repo (feature2)
$ git cherry-pick 7b6a45b
[feature2 069a7c7] adding file4
 Date: Tue Aug 6 11:59:55 2024 +0530
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file4
```

git tag:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git tag -a version -m "new version" c6df817

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git log --oneline
c6df817 (HEAD -> master, tag: version) adding file6
b02c998 Merge branch 'feature2'
069a7c7 (feature2) adding file4
6d0b45e adding file5
7b6a45b adding file4
714c456 (feature1) adding file3
f5d86de adding file2
b031ae7 adding file1
```

git show <tag name>:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git show version
tag version
Tagger: manish <manishhammagi@gmail.com>
Date:   Tue Aug 6 12:36:47 2024 +0530

new version

commit c6df8172a1a0dd045c704d38db9450d560c46759 (HEAD -> master, tag: version)
Author: manish <manishhammagi@gmail.com>
Date:   Tue Aug 6 12:35:08 2024 +0530

    adding file6
```

git reset –soft:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git reset --soft head~1

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   file6
```

git reset –mixed :

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git reset --mixed head~1

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        file5
        file6

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

git reset –hard:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git reset --hard head~1
HEAD is now at 7b6a45b adding file4
```

git rebase:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git rebase -i HEAD~3
[detached HEAD 2fe0147] Combined 3 commits
 Date: Tue Aug 6 11:40:27 2024 +0530
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file2
 create mode 100644 file3
 create mode 100644 file4
Successfully rebased and updated refs/heads/master.
```

git rm <filename>:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ ls
file1  file2  file3  file4

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git rm file1
rm 'file1'

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ git commit -m "deleted file1"
[master 604031e] deleted file1
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 file1

DELL@DELL-7490CH11 MINGW64 /d/git_repo (master)
$ ls
file2  file3  file4
```
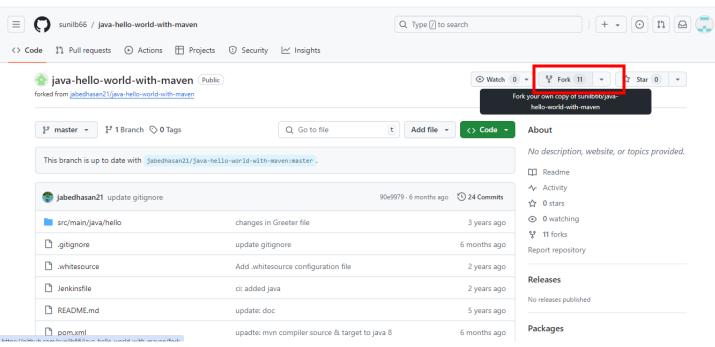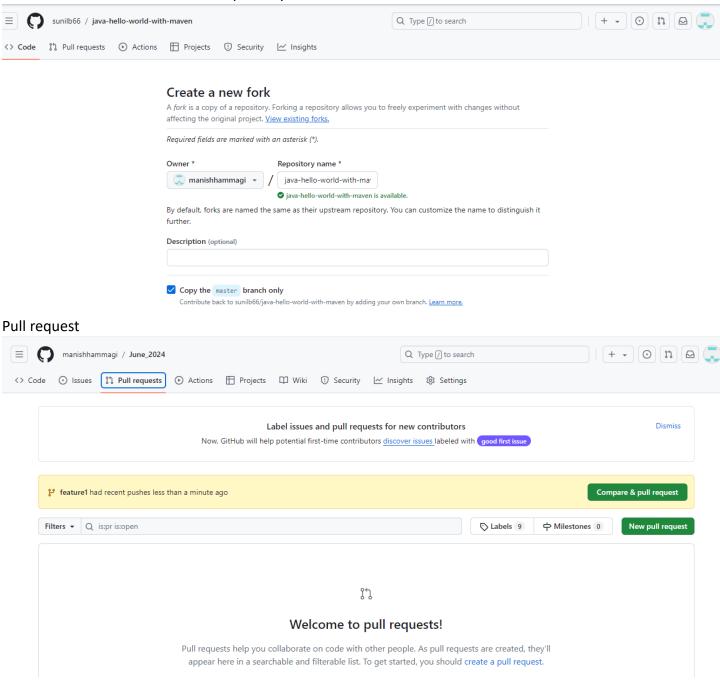
.gitignore:

Github

Forke

Give the name to the create new repository

Pull request

Create pull request

base: main ← compare: feature1 ✓ **Able to merge.** These branches can be automatically merged.

Add a title

Create manish

Add a description

| Write | Preview |

Add your description here...

📝 Markdown is supported   🖼 Paste, drop, or click to add files

Create pull request ▾

ⓘ Remember, contributions to this repository should follow our GitHub Community Guidelines.

Reviewers ⚙
No reviews

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects ⚙
None yet

Milestone ⚙
No milestone

Development
Use Closing keywords in the description to automatically close issues

Helpful resources
GitHub Community Guidelines

Merge pull request

Create manish #1

Edit   ‹› Code ▾

⇅ Open   manishhammagi wants to merge 1 commit into `main` from `feature1`

| 💬 Conversation 0 | -○- Commits 1 | ☑ Checks 0 | 📄 Files changed 1 |

+1 −0 ■□□□□

manishhammagi commented now   Owner ···

No description provided.

😊

-○- 💠 Create manish   Verified   209b1dd

⑂ ┃ ⅄ **Require approval from specific reviewers before merging**   [Add rule] ✕
        Rulesets ensure specific people approve pull requests before they're merged.

      ⊚ **Continuous integration has not been set up**
        GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

      ✓ **This branch has no conflicts with the base branch**
        Merging can be performed automatically.

Merge pull request ▾   You can also open this in GitHub Desktop or view command line instructions.

Reviewers ⚙
No reviews
Still in progress? Convert to draft

Assignees ⚙
No one—assign yourself

Labels ⚙
None yet

Projects ⚙
None yet

Milestone ⚙
No milestone

Development ⚙
Successfully merging this pull request may close these

Git clone:

Copy the ssh url after generating the ssh key.

Git push:

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo/June_2024 (main)
$ touch man

DELL@DELL-7490CH11 MINGW64 /d/git_repo/June_2024 (main)
$ git add man

DELL@DELL-7490CH11 MINGW64 /d/git_repo/June_2024 (main)
$ git commit -m "man"
[main 1f0d4cc] man
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 man

DELL@DELL-7490CH11 MINGW64 /d/git_repo/June_2024 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 213 bytes | 213.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:manishhammagi/June_2024.git
   8a72834..1f0d4cc  main -> main
branch 'main' set up to track 'origin/main'.
```

Git pull

```
DELL@DELL-7490CH11 MINGW64 /d/git_repo/June_2024 (main)
$ git pull origin main
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), 912 bytes | 1024 bytes/s, done.
From github.com:manishhammagi/June_2024
 * branch            main       -> FETCH_HEAD
   1f0d4cc..25f9f27  main       -> origin/main
Updating 1f0d4cc..25f9f27
Fast-forward
 man_2 | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 man_2
```