```
PS C:\Users\ganesh ji\Desktop\git> git --version
git version 2.39.0.windows.2
PS C:\Users\ganesh ji\Desktop\git> git clone https://github.com/Srishtirupa3/Training.git
Cloning into 'Training'...
warning: You appear to have cloned an empty repository.
PS C:\Users\ganesh ji\Desktop\git> cd Training
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch main

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        new.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
PS C:\Users\ganesh ji\Desktop\git\Training> git commit -m "Done"
[main (root-commit) b6e920b] Done
 1 file changed, 1 insertion(+)
 create mode 100644 new.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch main
Your branch is based on 'origin/main', but the upstream is gone.
  (use "git branch --unset-upstream" to fixup)

nothing to commit, working tree clean
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 244 bytes | 24.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Srishtirupa3/Training.git
 * [new branch]      main -> main
PS C:\Users\ganesh ji\Desktop\git\Training> git pull origin main
From https://github.com/Srishtirupa3/Training
 * branch            main       -> FETCH_HEAD
Already up to date.
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\ganesh ji\Desktop\git\Training> git log
```

```
PS C:\Users\ganesh ji\Desktop\git\Training> git log
commit b6e920bfa68c43b1268a042512d5a1c36cc53069 (HEAD -> main, origin/main)
Author: Srishtirupa3 <shreya.vyas5@gmail.com>
Date:    Mon Apr 17 16:05:31 2023 +0530

    Done
PS C:\Users\ganesh ji\Desktop\git\Training> git --help
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--super-prefix=<path>] [--config-env=<name>=<envvar>]
           <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
    clone     Clone a repository into a new directory
    init      Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
    add       Add file contents to the index
    mv        Move or rename a file, a directory, or a symlink
    restore   Restore working tree files
    rm        Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
    bisect    Use binary search to find the commit that introduced a bug
    diff      Show changes between commits, commit and working tree, etc
    grep      Print lines matching a pattern
    log       Show commit logs
    show      Show various types of objects
    status    Show the working tree status

grow, mark and tweak your common history
    branch    List, create, or delete branches
    commit    Record changes to the repository
    merge     Join two or more development histories together
    rebase    Reapply commits on top of another base tip
    reset     Reset current HEAD to the specified state
    switch    Switch branches
    tag       Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
```

```
collaborate (see also: git help workflows)
    fetch     Download objects and refs from another repository
    pull      Fetch from and integrate with another repository or a local branch
    push      Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
See 'git help git' for an overview of the system.
PS C:\Users\ganesh ji\Desktop\git\Training> git branch
* main
PS C:\Users\ganesh ji\Desktop\git\Training> git branch n1
PS C:\Users\ganesh ji\Desktop\git\Training> git branch
* main
  n1
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n1
Switched to branch 'n1'
PS C:\Users\ganesh ji\Desktop\git\Training> git branch -d n1
error: Cannot delete branch 'n1' checked out at 'C:/Users/ganesh ji/Desktop/git/Training'
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\ganesh ji\Desktop\git\Training> git branch -d n1
Deleted branch n1 (was b6e920b).
PS C:\Users\ganesh ji\Desktop\git\Training> git branch
* main
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n1
error: pathspec 'n1' did not match any file(s) known to git
PS C:\Users\ganesh ji\Desktop\git\Training> git branch n1
PS C:\Users\ganesh ji\Desktop\git\Training> git branch n2
PS C:\Users\ganesh ji\Desktop\git\Training> git branch
* main
  n1
  n2
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n1
Switched to branch 'n1'
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test1.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
```

```
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
PS C:\Users\ganesh ji\Desktop\git\Training> git commit -m "Donen1"
[n1 f6afabe] Donen1
 1 file changed, 1 insertion(+)
  create mode 100644 test1.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin n1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 280 bytes | 13.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'n1' on GitHub by visiting:
remote:          https://github.com/Srishtirupa3/Training/pull/new/n1
remote:
To https://github.com/Srishtirupa3/Training.git
 * [new branch]        n1 -> n1
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n1
nothing to commit, working tree clean
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n1
Untracked files:
   (use "git add <file>..." to include in what will be committed)
        test2.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
PS C:\Users\ganesh ji\Desktop\git\Training> git commit -m "Donen2"
[n1 cc4400a] Donen2
 1 file changed, 1 insertion(+)
  create mode 100644 test2.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n1
Already on 'n1'
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
Switched to branch 'n2'
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n2
nothing to commit, working tree clean
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
```

```
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
Switched to branch 'n2'
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n2
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test3.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin n2
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'n2' on GitHub by visiting:
remote:         https://github.com/Srishtirupa3/Training/pull/new/n2
remote:
To https://github.com/Srishtirupa3/Training.git
 * [new branch]      n2 -> n2
PS C:\Users\ganesh ji\Desktop\git\Training> git commit -m "Donen2"
[n2 fcb88eb] Donen2
 1 file changed, 1 insertion(+)
 create mode 100644 test3.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
Already on 'n2'
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin n2
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 287 bytes | 11.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Srishtirupa3/Training.git
   b6e920b..fcb88eb  n2 -> n2
PS C:\Users\ganesh ji\Desktop\git\Training> git merge n1
Merge made by the 'ort' strategy.
 test1.txt | 1 +
 test2.txt | 1 +
 2 files changed, 2 insertions(+)
 create mode 100644 test1.txt
 create mode 100644 test2.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git rebase n2
Current branch n2 is up to date.
PS C:\Users\ganesh ji\Desktop\git\Training> git rebase n1
Successfully rebased and updated refs/heads/n2.
```

```
PS C:\Users\ganesh ji\Desktop\git\Training> git tag
PS C:\Users\ganesh ji\Desktop\git\Training> git tag t1
PS C:\Users\ganesh ji\Desktop\git\Training> git tag
t1
PS C:\Users\ganesh ji\Desktop\git\Training> git tag t2
PS C:\Users\ganesh ji\Desktop\git\Training> git show t1
commit 45f4b8ee31e6db06892ebcbe1e27a11f483de08e (HEAD -> n2, tag: t2, tag: t1)
Author: Srishtirupa3 <shreya.vyas5@gmail.com>
Date:   Mon Apr 17 16:23:54 2023 +0530

        Donen2

diff --git a/test3.txt b/test3.txt
new file mode 100644
index 0000000..fac597e
--- /dev/null
+++ b/test3.txt
@@ -0,0 +1 @@
+hello test3
\ No newline at end of file
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin t1
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 547 bytes | 15.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/Srishtirupa3/Training.git
 * [new tag]         t1 -> t1
PS C:\Users\ganesh ji\Desktop\git\Training> git tag -d t1
Deleted tag 't1' (was 45f4b8e)
PS C:\Users\ganesh ji\Desktop\git\Training> git tag
t2
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin --delete t2
error: unable to delete 't2': remote ref does not exist
error: failed to push some refs to 'https://github.com/Srishtirupa3/Training.git'
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
Already on 'n2'
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n2
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test4.txt
```

```
PS C:\Users\ganesh ji\Desktop\git\Training> git checkout n2
Already on 'n2'
PS C:\Users\ganesh ji\Desktop\git\Training> git status
On branch n2
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        test4.txt

nothing added to commit but untracked files present (use "git add" to track)
PS C:\Users\ganesh ji\Desktop\git\Training> git add .
PS C:\Users\ganesh ji\Desktop\git\Training> git commit -m "Donen2"
[n2 173fa62] Donen2
 1 file changed, 1 insertion(+)
 create mode 100644 test4.txt
PS C:\Users\ganesh ji\Desktop\git\Training> git push origin n2
To https://github.com/Srishtirupa3/Training.git
 ! [rejected]        n2 -> n2 (non-fast-forward)
error: failed to push some refs to 'https://github.com/Srishtirupa3/Training.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
PS C:\Users\ganesh ji\Desktop\git\Training> git pull origin n2
From https://github.com/Srishtirupa3/Training
 * branch            n2         -> FETCH_HEAD
Merge made by the 'ort' strategy.
PS C:\Users\ganesh ji\Desktop\git\Training> git push
fatal: The current branch n2 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin n2

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

PS C:\Users\ganesh ji\Desktop\git\Training> git push origin n1
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Srishtirupa3/Training.git
   f6afabe..cc4400a  n1 -> n1
PS C:\Users\ganesh ji\Desktop\git\Training> git merge --squash n1
Already up to date. (nothing to squash)
PS C:\Users\ganesh ji\Desktop\git\Training>
```