

# Git Assignment

Git Repository Link - <https://github.com/nishabhagat30/Git-Practice.git>

## Merge Branches

```
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge FirstBranch
Updating 6798711..b1f3d98
Fast-forward
 BranchOneFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 BranchOneFile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
 6798711..b1f3d98  main -> main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge FirstBranch
Already up to date.
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
Everything up-to-date
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch
  FirstBranch
  SecondBranch
* main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge SecondBranch
Merge made by the 'ort' strategy.
 BranchTwoFile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 BranchTwoFile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
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% (2/2), 336 bytes | 336.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
  b1f3d98..6a3c790  main -> main
```

## Pull Changes from Remote

```
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 992 bytes | 76.00 KiB/s, done.
From https://github.com/nishabhagat30/Git-Practice
 * branch          main       -> FETCH_HEAD
 6a3c790..102853b  main       -> origin/main
Updating 6a3c790..102853b
Fast-forward
 firstFile | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.
```

## View Git Log and History

```
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git log --oneline
* 102853b (HEAD -> main, origin/main) Update firstFile
* 6a3c790 Merge branch 'SecondBranch'
|/
| * 1004958 (origin/SecondBranch, SecondBranch) BranchTwoFile modified
| * 546084b File added in second branch
| * b1f3d98 (origin/FirstBranch, FirstBranch) modified BranchOneFile
| * 6ffbd1b File added in FirstBranch
|/
* 6798711 Modified firstFile
* ed98206 First file added
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git log -p
commit 102853b8f4cc66555dc90435600028529a607e53 (HEAD -> main, origin/main)
Author: nishabhagat30 <116204796+nishabhagat30@users.noreply.github.com>
Date: Wed Feb 19 15:23:12 2025 +0530

    Update firstFile

diff --git a/firstFile b/firstFile
index 4033f5c..1b05b06 100644
--- a/firstFile
+++ b/firstFile
```

## Git Status and Staging

```
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add .
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "Final Commit"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> █
```

```
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git init
Initialized empty Git repository in C:/Users/DELL/OneDrive/Desktop/Nucleusteq/Git-Practice/.git/
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add .
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "First file added"
[master (root-commit) ed98206] First file added
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 firstFile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch -M main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git remote add origin https://github.com/nishabhagat30/Git-Pr
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 214 bytes | 214.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   firstFile

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add .
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   firstFile

PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "Modified firstFile"
[main 6798711] Modified firstFile
 1 file changed, 1 insertion(+)
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
Enumerating objects: 5, done.
```

```

Counting objects: 100% (5/5), done.
Writing objects: 100% (3/3), 288 bytes | 288.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
   ed98206..6798711  main -> main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch " FirstBranch"
fatal: ' FirstBranch' is not a valid branch name
hint: See `man git check-ref-format`
hint: Disable this message with "git config advice.refSyntax false"
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch " Firstbranch"
fatal: ' Firstbranch' is not a valid branch name
hint: See `man git check-ref-format`
hint: Disable this message with "git config advice.refSyntax false"
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch "FirstBranch"
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git checkout FirstBranch
Switched to branch 'FirstBranch'
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch
* FirstBranch
  main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin FirstBranch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'FirstBranch' on GitHub by visiting:
remote:   https://github.com/nishabhagat30/Git-Practice/pull/new/FirstBranch
remote:
To https://github.com/nishabhagat30/Git-Practice.git
 * [new branch]   FirstBranch -> FirstBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add BranchOnefile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "File added in FirstBranch"
[FirstBranch 6ffb1db] File added in FirstBranch
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 BranchOnefile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin FirstBranch
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), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git

```

```

6798711..6ffb1db  FirstBranch -> FirstBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch FirstBranch
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
       modified:   BranchOnefile

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add BranchOnefile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch FirstBranch
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
       modified:   BranchOnefile

PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "modified BranchOnefile"
[FirstBranch b1f3d98] modified BranchOnefile
 1 file changed, 1 insertion(+)
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin FirstBranch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
   6ffb1db..b1f3d98  FirstBranch -> FirstBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git checkout master
error: pathspec 'master' did not match any file(s) known to git
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch "SecondBranch"
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch
  FirstBranch
* SecondBranch
  main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin SecondBranch
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

```

```

remote: Create a pull request for 'SecondBranch' on GitHub by visiting:
remote:   https://github.com/nishabhagat30/Git-Practice/pull/new/SecondBranch
remote:
To https://github.com/nishabhagat30/Git-Practice.git
* [new branch]      SecondBranch -> SecondBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git checkout SecondBranch
Switched to branch 'SecondBranch'
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add BranchTwofile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "File added in second branch"
[SecondBranch 546084b] File added in second branch
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 BranchTwofile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin SecondBranch
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), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
 6798711..546084b  SecondBranch -> SecondBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch SecondBranch
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   BranchTwofile

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add BranchTwofile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "BranchTwofile modified"
[SecondBranch 1004958] BranchTwofile modified
 1 file changed, 1 insertion(+)
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin SecondBranch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.

```

```

Writing objects: 100% (3/3), 329 bytes | 329.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
 546084b..1004958  SecondBranch -> SecondBranch
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch
  FirstBranch
  SecondBranch
* main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge FirstBranch
Updating 6798711..b1f3d98
Fast-forward
 BranchOnefile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 BranchOnefile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
 6798711..b1f3d98  main -> main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge FirstBranch
Already up to date.
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
Everything up-to-date
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git branch
  FirstBranch
  SecondBranch
* main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git merge SecondBranch
Merge made by the 'ort' strategy.
 BranchTwofile | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 BranchTwofile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git push origin main
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% (2/2), 336 bytes | 336.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/nishabhagat30/Git-Practice.git
   b1f3d98..6a3c790  main -> main
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git pull origin main
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 992 bytes | 76.00 KiB/s, done.
From https://github.com/nishabhagat30/Git-Practice
   * branch      main      -> FETCH_HEAD
   6a3c790..102853b  main    -> origin/main
Updating 6a3c790..102853b
Fast-forward
   firstFile | 2 +-
   1 file changed, 1 insertion(+), 1 deletion(-)
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git log --oneline --graph --all
* 102853b (HEAD -> main, origin/main) Update firstFile
* 6a3c790 Merge branch 'SecondBranch'
| \
| * 1004958 (origin/SecondBranch, SecondBranch) BranchTwoFile modified
| * 546084b File added in second branch
* | b1f3d98 (origin/FirstBranch, FirstBranch) modified BranchOneFile
* | 6ffb1db File added in FirstBranch
| /
* 6798711 Modified firstFile
* ed98206 First file added
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git log -p
commit 102853b8f4cc66555dc90435600028529a607e53 (HEAD -> main, origin/main)
Author: nishabhagat30 <116204796+nishabhagat30@users.noreply.github.com>
Date:   Wed Feb 19 15:23:12 2025 +0530

```

Update firstFile

Update firstFile

```

diff --git a/firstFile b/firstFile
index 4033f5c..1b05b06 100644
--- a/firstFile
+++ b/firstFile
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git add .
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice> git commit -m "Final Commit"
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
PS C:\Users\DELL\OneDrive\Desktop\Nucleusteq\Git-Practice>

```