

# GIT AND GITHUB ASSIGNMENT

## Branching & Collaboration

\* Create a new repository and initialize it with a README.md.

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
```

```
$ ls
```

```
devops-local-repo/ jnana-git/ weekedd-devsecops-task/
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
```

```
$ mkdir git-github-assignment
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
```

```
$ cd git-github-assignment/
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
```

```
$ ls
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
```

```
$ git clone git@github.com:jnanaprakash05/git-hands-on-assignment.git
```

```
Cloning into 'git-hands-on-assignment'...
```

```
remote: Enumerating objects: 3, done.
```

```
remote: Counting objects: 100% (3/3), done.
```

```
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
```

```
Receiving objects: 100% (3/3), done.
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
```

```
$ ls
```

```
git-hands-on-assignment/
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
```

```
$ cd git-hands-on-assignment/
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
$ ls
devops-local-repo/ jnana-git/ weekedd-devsecops-task/

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
$ mkdir git-github-assignment

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos
$ cd git-github-assignment/

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
$ ls

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
$ git clone git@github.com:jnanaprakash05/git-hands-on-assignment.git
Cloning into 'git-hands-on-assignment'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
$ ls
git-hands-on-assignment/

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment
$ cd git-hands-on-assignment/

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ |
```

\* Create 3 branches and switching between branches:

\* dev (for development)

\* qa (for testing)

\* features/login (for a new feature)

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
* main
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch dev
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
dev
* main
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch qa
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch feature/login
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
dev
feature/login
* main
qa
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
* main

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch dev

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
dev
* main

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch qa

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch feature/login

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git branch
dev
feature/login
* main
qa

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ |
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)

```
$ git branch
dev
feature/login
* main
qa
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)

```
$ git checkout dev
Switched to branch 'dev'
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git branch
* dev
feature/login
main
qa
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git checkout qa
Switched to branch 'qa'
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)

```
$ git branch
dev
feature/login
main
* qa
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)

```
$ git checkout feature/login
Switched to branch 'feature/login'
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

```
$ git branch
dev
* feature/login
main
qa
```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout dev
Switched to branch 'dev'

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git branch
* dev
feature/login
main
qa

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git checkout qa
Switched to branch 'qa'

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ git branch
dev
feature/login
main
* qa

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ git checkout feature/login
Switched to branch 'feature/login'

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git branch
* dev
feature/login
main
qa

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$
```

## Feature Development

- \* Add a file login.py in features/login branch.
- \* Add some Python code (e.g., simple login function).
- \* Commit and push it to the remote repo.

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout feature/login
Switched to branch 'feature/login'
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ touch login.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ ls
README.md login.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ vi login.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ git status
On branch feature/login
Untracked files:
(use "git add <file>..." to include in what will be committed)
login.py
```

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

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ git add login.py
warning: in the working copy of 'login.py', LF will be replaced by CRLF the next time Git touches it
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ git commit -m "simple login function"
[feature/login a7ac875] simple login function
1 file changed, 10 insertions(+)
create mode 100644 login.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(feature/login)
$ git push
fatal: The current branch feature/login has no upstream branch.
To push the current branch and set the remote as upstream, use
```

```
git push --set-upstream origin feature/login
```

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

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

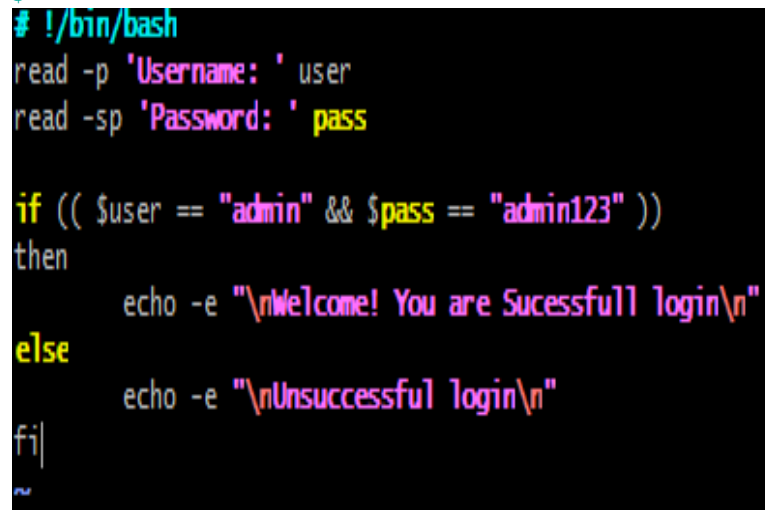
```
$ git push --
--all          --exec=          --force-with-lease  --no-...          --prune          --recurse-submodules= --
tags
--atomic       --follow-tags    --ipv4            --no-verify       --push-option=    --repo=          --
verbose
--delete       --force         --ipv6           --porcelain       --quiet          --set-upstream    --verify
--dry-run      --force-if-includes --mirror         --progress        --receive-pack=    --signed
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

```
$ git push --set-upstream origin feature/login
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 431 bytes | 431.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/login' on GitHub by visiting:
remote:   https://github.com/jnanaprakash05/git-hands-on-assignment/pull/new/feature/login
remote:
To github.com:jnanaprakash05/git-hands-on-assignment.git
* [new branch]   feature/login -> feature/login
branch 'feature/login' set up to track 'origin/feature/login'.
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$



```
# !/bin/bash
read -p 'Username: ' user
read -sp 'Password: ' pass

if (( $user == "admin" && $pass == "admin123" ))
then
    echo -e "\nWelcome! You are Successfull login\n"
else
    echo -e "\nUnsuccessful login\n"
fi
~
```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout feature/login
Switched to branch 'feature/login'

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ touch login.py

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ ls
README.md  login.py

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ vi login.py

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git status
On branch feature/login
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    login.py

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

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git add login.py
warning: in the working copy of 'login.py', LF will be replaced by CRLF the next time Git touches it

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git commit -m "simple login function"
[feature/login a7ac875] simple login function
1 file changed, 10 insertions(+)
create mode 100644 login.py

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ |

```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git push
fatal: The current branch feature/login has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin feature/login

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

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git push --
--all                --exec=                --force-with-lease  --no-...            --prune             --recurse-submodules= --tags
--atomic            --follow-tags       --ipv4              --no-verify         --push-option=      --repo=              --verbose
--delete            --force             --ipv6              --porcelain         --quiet             --set-upstream       --verify
--dry-run            --force-if-includes --mirror            --progress          --receive-pack=     --signed

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git push --set-upstream origin feature/login
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 431 bytes | 431.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'feature/login' on GitHub by visiting:
remote:   https://github.com/jnanaprakash05/git-hands-on-assignment/pull/new/feature/login
remote:
To github.com:jnanaprakash05/git-hands-on-assignment.git
 * [new branch]      feature/login -> feature/login
branch 'feature/login' set up to track 'origin/feature/login'.

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ |

```

\* Open a Pull Request (PR) from features/login → dev.

\* Review and merge.

The screenshot shows the GitHub 'Create pull request' interface. At the top, the base branch is 'dev' and the compare branch is 'feature/login'. The title is 'simple login function'. The description is 'pull request from features/login to dev'. The right sidebar shows 'Reviewers' (No reviews), 'Assignees' (jnanaprakash05), 'Labels' (None yet), 'Projects' (None yet), and 'Milestone' (No milestone). A green 'Create pull request' button is at the bottom right.

**Add a title**  
simple login function

**Add a description**  
Write | Preview  
pull request from features/login to dev  
Markdown is supported | Paste, drop, or click to add files  
Create pull request

**Reviewers**  
No reviews

**Assignees**  
jnanaprakash05

**Labels**  
None yet

**Projects**  
None yet

**Milestone**  
No milestone

**Development**  
Use [Closing keywords](#) in the description to automatically close issues.  
[Go to Settings to activate Windows.](#)

**Comments**  
jnanaprakash05 commented now  
pull request from features/login to dev  
simple login function  
jnanaprakash05 self-assigned this now

**Conflicts**  
No conflicts with base branch  
Merging can be performed automatically.  
Merge pull request | You can also merge this with the command line. [View command line instructions.](#)

## Merge Conflicts

\* In the dev branch, add a line to login.py.

\* In the features/login branch, add a different line in the same place of login.py.

\* Try merging features/login into dev.

\* Resolve the merge conflict, commit, and push.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ git checkout dev

Switched to branch 'dev'

M login.py

Your branch is up to date with 'origin/dev'.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ ls

README.md login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ vim login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ git add \*

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ git status

On branch dev

Your branch is up to date with 'origin/dev'.

Changes to be committed:

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

modified: login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ git commit -m "merge conflict"

[dev a1e3d7d] merge conflict

1 file changed, 2 insertions(+)

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ ls

README.md login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ vim login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ git add login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ git status

On branch feature/login

Your branch is up to date with 'origin/feature/login'.

Changes to be committed:

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

modified: login.py



Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ git commit -m "modifying in feature/login"

[feature/login 147e886] modifying in feature/login

1 file changed, 1 insertion(+)

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$ git merge dev

Auto-merging login.py

CONFLICT (content): Merge conflict in login.py

Automatic merge failed; fix conflicts and then commit the result.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ cat login.py

# !/bin/bash

read -p 'Username: ' user

read -sp 'Password: ' pass

if (( \$user == "admin" && \$pass == "admin123" ))

then

echo -e "\nWelcome! You are Successfull login\n"

else

echo -e "\nUnsuccessful login\n"

fi

<<<<<<< HEAD

=====

>>>>>>> dev

merge conflict

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git checkout dev
Switched to branch 'dev'
M   login.py
Your branch is up to date with 'origin/dev'.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ ls
README.md  login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ vim login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git add *

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git status
On branch dev
Your branch is up to date with 'origin/dev'.

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

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git commit -m "merge conflict"
[dev a1e3d7d] merge conflict
1 file changed, 2 insertions(+)

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$
```

```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)
$ git add login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)
$ git status -s
M login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)
$ git commit -m "resolving merge conflict"
[feature/login cd72400] resolving merge conflict

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 743 bytes | 743.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:jnanaprakash05/git-hands-on-assignment.git
a7ac875..cd72400 feature/login -> feature/login

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)
$ |

```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ vim login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ git status

On branch feature/login

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

(use "git push" to publish your local commits)

You have unmerged paths.

(fix conflicts and run "git commit")

(use "git merge --abort" to abort the merge)

Unmerged paths:

(use "git add <file>..." to mark resolution)

both modified: login.py

no changes added to commit (use "git add" and/or "git commit -a")

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ git add login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ git status -s

M login.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login|MERGING)

\$ git commit -m "resolving merge conflict"

[feature/login cd72400] resolving merge conflict

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

\$

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

```
$ git push
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 4 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 743 bytes | 743.00 KiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To github.com:jnanaprakash05/git-hands-on-assignment.git
a7ac875..cd72400 feature/login -> feature/login
```

#### **4.REBASING**

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (feature/login)

```
$ git checkout -b features/payments
Switched to a new branch 'features/payments'
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ git branch
dev
feature/login
* features/payments
main
qa
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ echo "creating a file for rebase" >payment.sh
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ ls
README.md login.py payment.sh
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ git status
On branch features/payments
Untracked files:
(use "git add <file>..." to include in what will be committed)
payment.sh
```

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

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ git add payment.sh
warning: in the working copy of 'payment.sh', LF will be replaced by CRLF the next time Git touches it
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

```
$ git commit -m "rebasng to dev"
[features/payments 60edc8e] rebasing to dev
```

1 file changed, 1 insertion(+)  
create mode 100644 payment.sh

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

\$ git push

fatal: The current branch features/payments has no upstream branch.

To push the current branch and set the remote as upstream, use

git push --set-upstream origin features/payments

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

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

\$ git push --set-upstream origin features/payments

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), 337 bytes | 337.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

remote:

remote: Create a pull request for 'features/payments' on GitHub by visiting:

remote: <https://github.com/jnanaprakash05/git-hands-on-assignment/pull/new/features/payments>

remote:

To github.com:jnanaprakash05/git-hands-on-assignment.git

\* [new branch] features/payments -> features/payments

branch 'features/payments' set up to track 'origin/features/payments'.

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

\$

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (features/payments)

\$ git checkout dev

Switched to branch 'dev'

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

(use "git push" to publish your local commits)

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)  
\$ echo "updating readme.md while rebasing" >> README.md

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

\$ git status

On branch dev

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

(use "git push" to publish your local commits)

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: README.md

no changes added to commit (use "git add" and/or "git commit -a")

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git commit -a -m "updating README.md"
```

warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

```
[dev cf09af4] updating README.md
```

```
1 file changed, 1 insertion(+)
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git push
```

Enumerating objects: 5, done.

Counting objects: 100% (5/5), done.

Delta compression using up to 4 threads

Compressing objects: 100% (3/3), done.

Writing objects: 100% (3/3), 353 bytes | 353.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To github.com:jnanaprakash05/git-hands-on-assignment.git

```
9922c1f..cf09af4 dev -> dev
```

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git status
```

On branch dev

Your branch is up to date with 'origin/dev'.

nothing to commit, working tree clean

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$ git rebase features/payments
```

Successfully rebased and updated refs/heads/dev.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)

```
$
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ echo "updating readme.md while rebasing">>README.md
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git status
On branch dev
Your branch is ahead of 'origin/dev' by 1 commit.
(use "git push" to publish your local commits)

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:   README.md

no changes added to commit (use "git add" and/or "git commit -a")
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git commit -a -m "updating README.md"
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it
[dev cf09af4] updating README.md
1 file changed, 1 insertion(+)
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 353 bytes | 353.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:jnanaprakash05/git-hands-on-assignment.git
  9922c1f..cf09af4 dev -> dev
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git status
On branch dev
Your branch is up to date with 'origin/dev'.

nothing to commit, working tree clean
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git rebase features/payments
Successfully rebased and updated refs/heads/dev.
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ |
```

## Cherry-Picking

- \* In dev, commit a change in deploy.sh.
- \* Switch to qa branch and cherry-pick that commit.
- \* Push the qa branch and raise a PR.

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout dev
Switched to branch 'dev'
Your branch is ahead of 'origin/dev' by 5 commits.
(use "git push" to publish your local commits)
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git status
On branch dev
Your branch is ahead of 'origin/dev' by 5 commits.
(use "git push" to publish your local commits)
```

nothing to commit, working tree clean

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 475 bytes | 475.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To github.com:jnanaprakash05/git-hands-on-assignment.git
cf09af4..b6c9205 dev -> dev
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ echo "creating a file for cheery-pick" >deploy.sh
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git add deploy.sh
warning: in the working copy of 'deploy.sh', LF will be replaced by CRLF the next time Git touches it
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git commit -m "working on cherry-pick"
[dev 8425e74] working on cherry-pick
1 file changed, 1 insertion(+)
create mode 100644 deploy.sh
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git push
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), 381 bytes | 381.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:jnanaprakash05/git-hands-on-assignment.git
b6c9205..8425e74 dev -> dev
```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout dev
Switched to branch 'dev'
Your branch is ahead of 'origin/dev' by 5 commits.
(use "git push" to publish your local commits)

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git status
On branch dev
Your branch is ahead of 'origin/dev' by 5 commits.
(use "git push" to publish your local commits)

nothing to commit, working tree clean

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git push
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 475 bytes | 475.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To github.com:jnanaprakash05/git-hands-on-assignment.git
cf09af4..b6c9205 dev -> dev

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ echo "creating a file for cheery-pick" >deploy.sh

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git add deploy.sh
warning: in the working copy of 'deploy.sh', LF will be replaced by CRLF the next time Git touches it

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git commit -m "working on cherry-pick"
[dev 8425e74] working on cherry-pick
1 file changed, 1 insertion(+)
create mode 100644 deploy.sh

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ |

```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git log --oneline
fatal: unrecognized argument: --oneline

```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git log --oneline
8425e74 (HEAD -> dev, origin/dev) working on cherry-pick
b6c9205 Merge branch 'dev' of github.com:jnanaprakash05/git-hands-on-assignment into dev
f579cf1 updating README.md
cf09af4 updating README.md
60edc8e (origin/features/payments, features/payments) rebasing to dev
cd72400 (origin/feature/login, feature/login) resolving merge conflict
147e886 modifying in feature/login
a1e3d7d merge conflict
9922c1f Merge pull request from jnanaprakash05/feature/login
a7ac875 simple login function
59bb196 (origin/qa, origin/main, origin/HEAD, qa, main) Initial commit

```

```

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git checkout qa
Switched to branch 'qa'
Your branch is up to date with 'origin/qa'
.

```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ git cherry-pick 8425e74
[qa 18824e4] working on cherry-pick
Date: Fri Sep 5 20:37:19 2025 +0530
1 file changed, 1 insertion(+)
create mode 100644 deploy.sh
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git push
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), 381 bytes | 381.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:jnanaprakash05/git-hands-on-assignment.git
   b6c9205..8425e74  dev -> dev

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git log --oneline
fatal: unrecognized argument: --oneline

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git log --oneline
8425e74 (HEAD -> dev, origin/dev) working on cherry-pick
b6c9205 Merge branch 'dev' of github.com:jnanaprakash05/git-hands-on-assignment into dev
f579cf1 updating README.md
cf09af4 updating README.md
60edc8e (origin/features/payments, features/payments) rebasing to dev
cd72400 (origin/feature/login, feature/login) resolving merge conflict
147e886 modifying in feature/login
a1e3d7d merge conflict
9922c1f Merge pull request from jnanaprakash05/feature/login
a7ac875 simple login function
59bb196 (origin/qa, origin/main, origin/HEAD, qa, main) Initial commit

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git checkout qa
Switched to branch 'qa'
Your branch is up to date with 'origin/qa'.

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ git cherry-pick 8425e74
[qa 18824e4] working on cherry-pick
Date: Fri Sep 5 20:37:19 2025 +0530
1 file changed, 1 insertion(+)
create mode 100644 deploy.sh

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ ls
README.md  deploy.sh

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ |
```

**Merged**

working on cherry-pick #2  
 jnanaprakash05 merged 1 commit into `dev` from `qa` now

---

jnanaprakash05 commented [now](#)
Owner ...

cherry-pick

working on cherry-pick
 18824e4

jnanaprakash05 self-assigned this [now](#)

jnanaprakash05 merged commit `5ffa0c1` into `dev` [now](#)
Revert

---

**Pull request successfully merged and closed**  
 You're all set — the `qa` branch can be safely deleted.
 Delete branch



## Hotfix Scenario

- \* Create a branch hotfix/issue-123 from main.
- \* Add a fix in app.py.
- \* Commit and push.
- \* Merge into both main and dev.

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (qa)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout -b hotfix/issue-123
Switched to a new branch 'hotfix/issue-123'
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(hotfix/issue-123)
$ echo "working on hotfix" >app.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(hotfix/issue-123)
$ git add app.py
warning: in the working copy of 'app.py', LF will be replaced by CRLF the next time Git touches it
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(hotfix/issue-123)
$ git commit -m "committing file for hotfix/issue-123"
[hotfix/issue-123 762b385] committing file for hotfix/issue-123
1 file changed, 1 insertion(+)
create mode 100644 app.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(hotfix/issue-123)
$ git push
fatal: The current branch hotfix/issue-123 has no upstream branch.
To push the current branch and set the remote as upstream, use
```

```
git push --set-upstream origin hotfix/issue-123
```

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

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment
(hotfix/issue-123)
$ git push --set-upstream origin hotfix/issue-123
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), 308 bytes | 308.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'hotfix/issue-123' on GitHub by visiting:
```

remote: <https://github.com/jnanaprakash05/git-hands-on-assignment/pull/new/hotfix/issue-123>  
remote:  
To github.com:jnanaprakash05/git-hands-on-assignment.git  
\* [new branch] hotfix/issue-123 -> hotfix/issue-123  
branch 'hotfix/issue-123' set up to track 'origin/hotfix/issue-123'.

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (hotfix/issue-123)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git merge hotfix/issue-123
Updating 59bb196..762b385
Fast-forward
 app.py | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 app.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout dev
Switched to branch 'dev'
Your branch is behind 'origin/dev' by 2 commits, and can be fast-forwarded.
(use "git pull" to update your local branch)
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git merge hotfix/issue-123
Merge made by the 'ort' strategy.
 app.py | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 app.py
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (hotfix/issue-123)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git merge hotfix/issue-123
Updating 59bb196..762b385
Fast-forward
 app.py | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 app.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git checkout dev
Switched to branch 'dev'
Your branch is behind 'origin/dev' by 2 commits, and can be fast-forwarded.
 (use "git pull" to update your local branch)

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ git merge hotfix/issue-123
Merge made by the 'ort' strategy.
 app.py | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 app.py

Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (dev)
$ |
```

## Tagging & Releases

- \* Create a tag v1.0.0 on the main branch.
- \* Push the tag to remote.

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag -a V1.0.0
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag
V1.0.0
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag V1.0.0lw
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag
V1.0.0
V1.0.0lw
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git show V1.0.0
tag V1.0.0
Tagger: jnanaprakash <jnanaprakash05@gmail.com>
Date: Fri Sep 5 21:03:28 2025 +0530
```

tagging

```
commit 762b385a25316aa46e17bf55bd635f597ff04f65 (HEAD -> main, tag: V1.0.0lw, tag: V1.0.0, origin/main,
origin/hotfix/issue-123, origin/HEAD, hotfix/issue-123)
Author: jnanaprakash <jnanaprakash05@gmail.com>
Date: Fri Sep 5 20:51:11 2025 +0530
```

committing file for hotfix/issue-123

```
diff --git a/app.py b/app.py
new file mode 100644
index 0000000..832a83d
--- /dev/null
+++ b/app.py
@@ -0,0 +1 @@
+working on hotfix
```

```
Deeksha Pallu@deeksa-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git push origin --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 159 bytes | 159.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To github.com:jnanaprakash05/git-hands-on-assignment.git
* [new tag]      V1.0.0 -> V1.0.0
* [new tag]      V1.0.0lw -> V1.0.0lw
```

```
Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag -a V1.0.0

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag
V1.0.0

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag V1.0.0lw

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git tag
V1.0.0
V1.0.0lw

Deeksha Pallu@deeksah-pallu MINGW64 ~/git-local-repos/git-github-assignment/git-hands-on-assignment (main)
$ git show V1.0.0
tag V1.0.0
Tagger: jnanaprakash <jnanaprakash05@gmail.com>
Date:   Fri Sep 5 21:03:28 2025 +0530

tagging

commit 762b385a25316aa46e17bf55bd635f597ff04f65 (HEAD -> main, tag: V1.0.0lw, tag: V1.0.0, origin/main, origin/hotfix/issue-123, origin/HEAD, hotfix/issue-123)
Author: jnanaprakash <jnanaprakash05@gmail.com>
Date:   Fri Sep 5 20:51:11 2025 +0530

    committing file for hotfix/issue-123

diff --git a/app.py b/app.py
new file mode 100644
index 0000000..832a83d
--- /dev/null
+++ b/app.py
@@ -0,0 +1 @@
+working on hotfix
```