SELF LEARNING BATCH 2025

Version Control using Git

1. Initialize, Commit, and Branch Basics

Objective:

- o Initialize a new Git repository.
- Create a few files and commit them.
- o Create a new branch, make changes, and merge it back to the main branch.

Requirements:

- Use git init, git add, and git commit to start your repository.
- Create a branch using git branch or git checkout -b and switch between branches.
- Merge the branch back to the main branch and verify the commit history.

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$ 1s
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git
$ mkdir Task1 Task2 Task3
rohit@Rohith MINGw64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git
$ cd Task1
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1
$ git status
fatal: not a git repository (or any of the parent directories): .git
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task1
$ git init
Initialized empty Git repository in C:/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1/.git/
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task1 (master)
```

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ontrol using Git/Task1 (master)
$ git status
on branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ touch index.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ ls
index.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ touch readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ touch readme.md
```

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
        new file: index.html
        new file: readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ git commit
[master (root-commit) 6858866] Add index.html and readme.md to code base
2 files changed, 11 insertions(+)
        create mode 100644 index.html
        create mode 100644 readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ create mode 100644 index.html
        create mode 100644 readme.md
```

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MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

create mode 100644 index.html
create mode 100644 readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Taskl (master)

$ git branch

* master

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Taskl (master)

$ git branch nav-bar

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Taskl (master)

$ git checkout nav-bar

Switched to branch 'nav-bar'

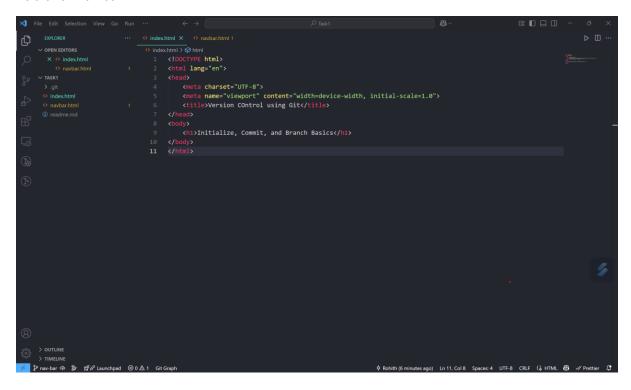
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Taskl (nav-bar)

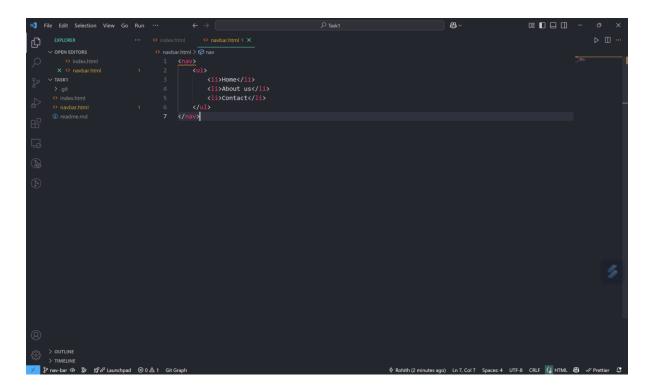
$ touch navbar.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Taskl (nav-bar)

$ touch navbar.html
```

At branch nav-bar:





```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (nav-bar)
$ touch navbar.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (nav-bar)
$ git add navbar.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (nav-bar)
$ git commit -m "add navbar.html"
[nav-bar 14fa897] add navbar.html"
[ file changed, 7 insertions(+) create mode 100644 navbar.html

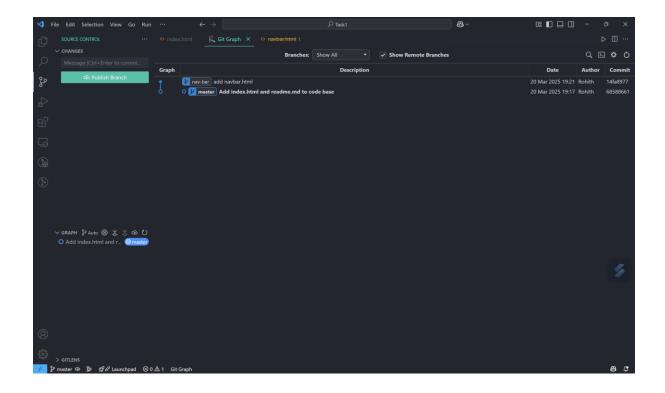
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (nav-bar)
$ git checkout master
Switched to branch 'master'

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)

$ [ rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
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At master branch

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MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (nav-bar)
$ git checkout master
Switched to branch 'master'

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ git merge nav-bar
Updating 6858866..14fa897

Fast-forward
navbar.html | 7 +++++++
1 file changed, 7 insertions(+)
create mode 100644 navbar.html

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ git status
on branch master
nothing to commit, working tree clean

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ git status
On branch master
nothing to commit, working tree clean

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)
$ control using Git/Task1 (master)
```

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MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont... — X

Add index.html and readme.md to code base

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)

$ git commit -am "Update readme file"
[master 90266c6] Update readme file
1 file changed, 69 insertions(+)

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)

$ git status
on branch master
nothing to commit, working tree clean

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)

$ git branch
* master
nav-bar

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task1 (master)

$ control using Git/Task1 (master)
```

