

## SELF LEARNING BATCH 2025

### Version Control using Git

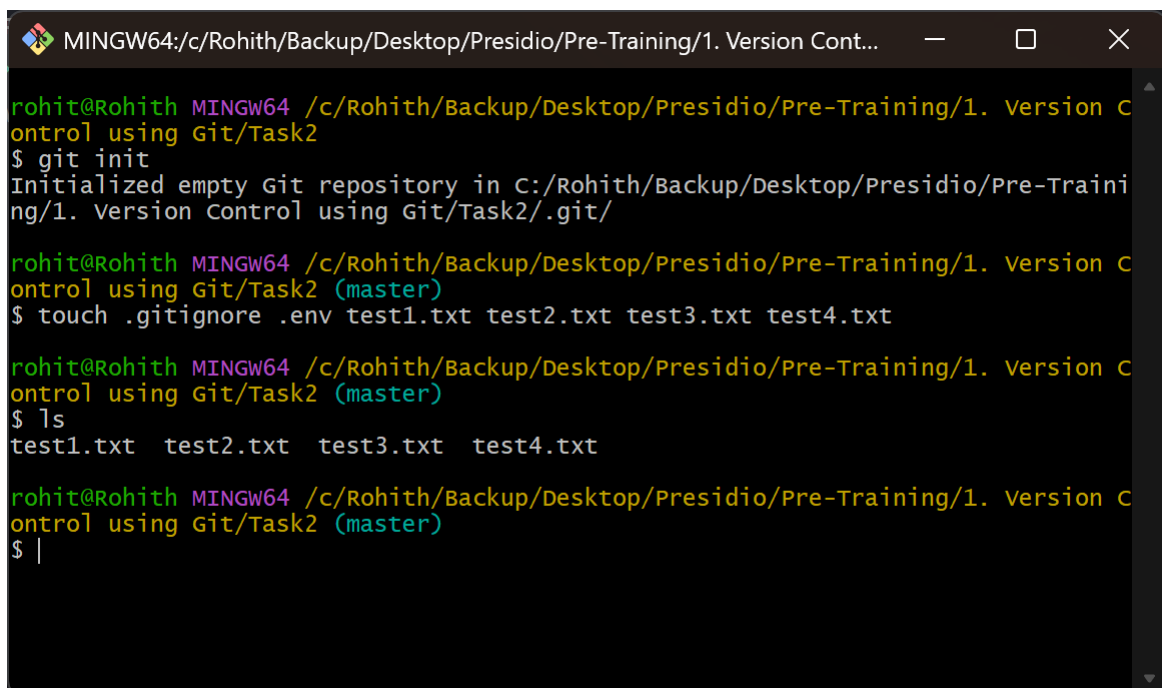
#### Using .gitignore and Tracking Files

##### Objective:

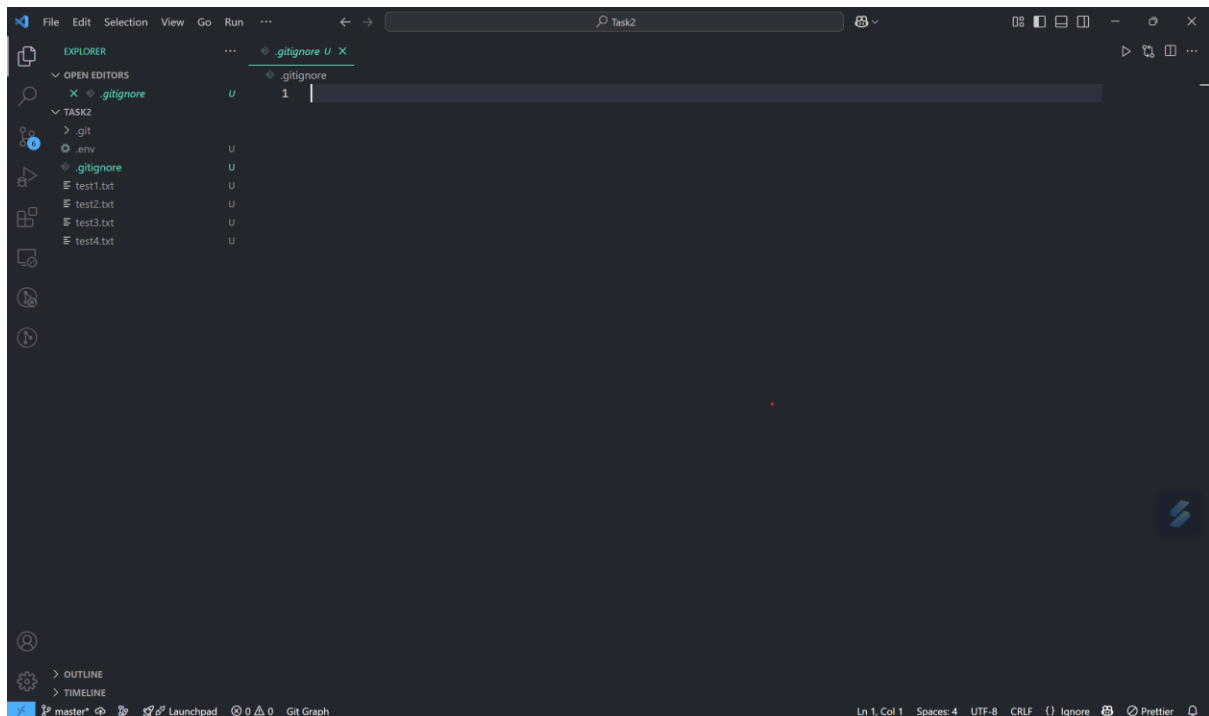
- Set up a .gitignore file to exclude certain files or directories.
- Verify that ignored files are not tracked by Git.

##### Requirements:

- Create a .gitignore file with patterns (e.g., ignoring log files or temporary files).
- Add files that match and do not match the ignore patterns.
- Use git status to confirm which files are being tracked.



```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task2
$ git init
Initialized empty Git repository in C:/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task2/.git/
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task2 (master)
$ touch .gitignore .env test1.txt test2.txt test3.txt test4.txt
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task2 (master)
$ ls
test1.txt  test2.txt  test3.txt  test4.txt
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Control using Git/Task2 (master)
$ |
```



```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
$ ls
test1.txt test2.txt test3.txt test4.txt

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git status
On branch master

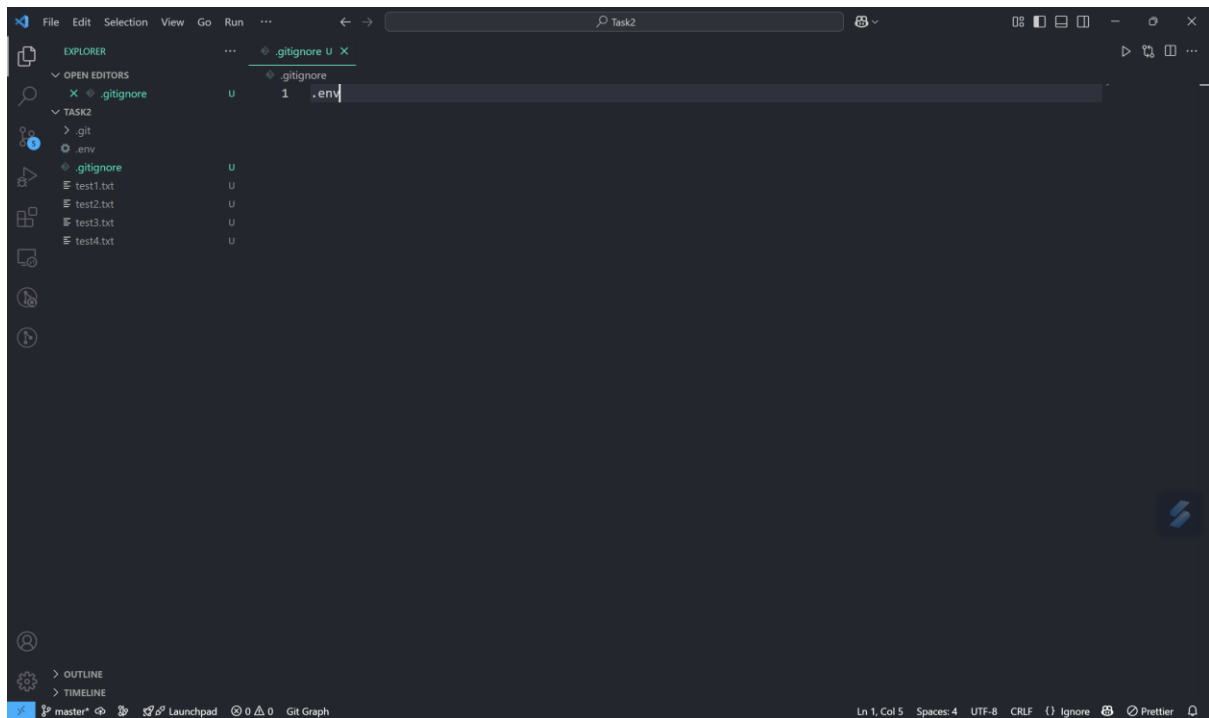
No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .env
        .gitignore
        test1.txt
        test2.txt
        test3.txt
        test4.txt

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

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$
```

Git keeps track of .env, .gitignore, test1.txt, test2.txt, test3.txt, test4.txt



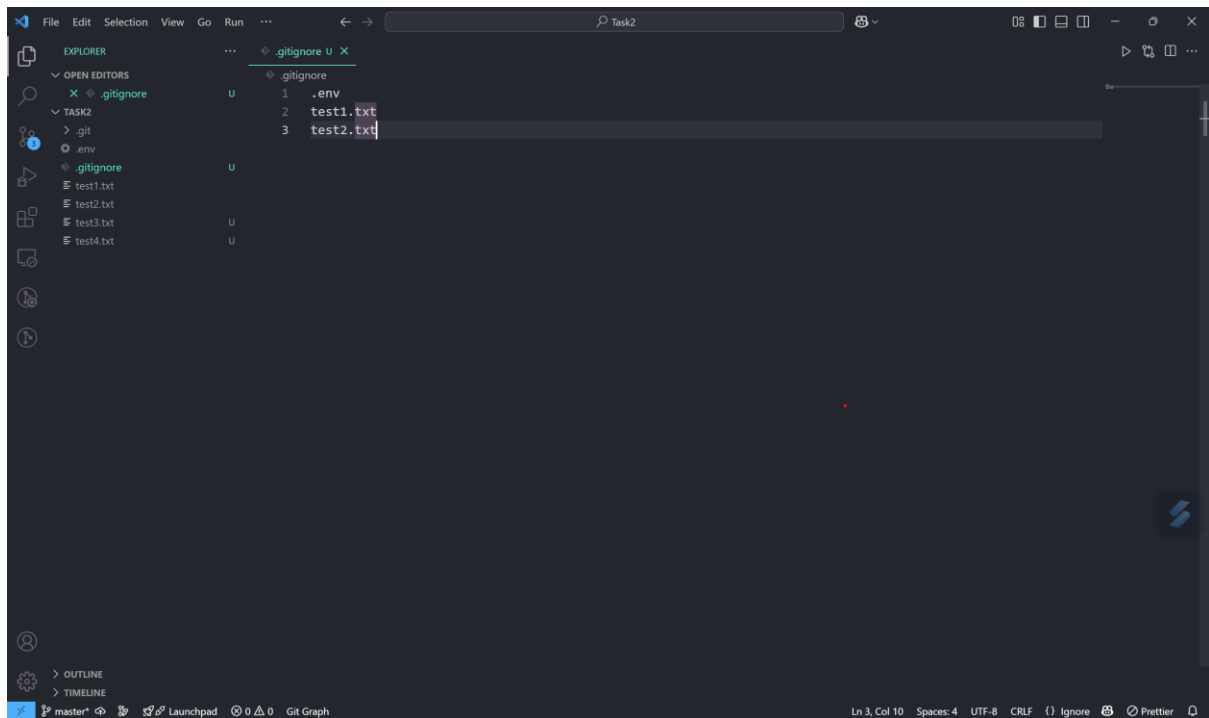
```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
test4.txt

nothing added to commit but untracked files present (use "git add" to track)
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        test1.txt
        test2.txt
        test3.txt
        test4.txt

nothing added to commit but untracked files present (use "git add" to track)
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ |
```



```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
test2.txt
test3.txt
test4.txt

nothing added to commit but untracked files present (use "git add" to track)
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .gitignore
        test3.txt
        test4.txt

nothing added to commit but untracked files present (use "git add" to track)
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$
```

From the below screenshot, it is clear that .gitignore, test3.txt, test4.txt is now in the stage area

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
nothing added to commit but untracked files present (use "git add" to track)
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git add .

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   .gitignore
        new file:   test3.txt
        new file:   test4.txt

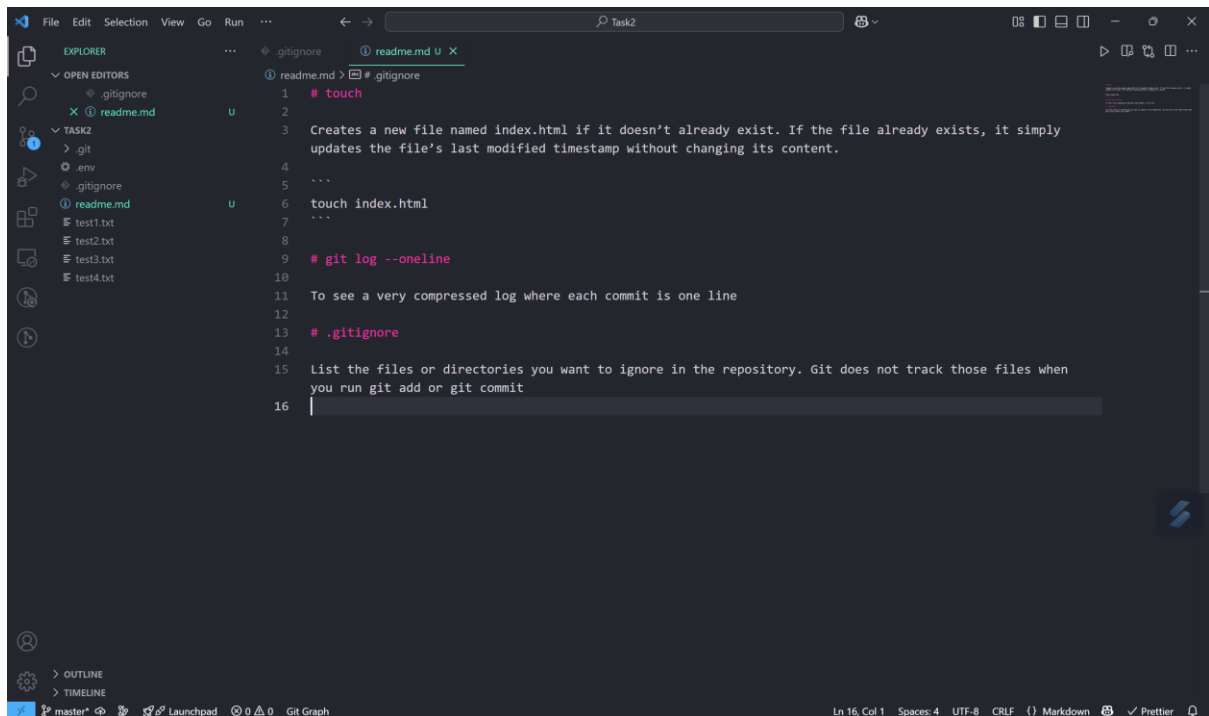
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$
```

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   .gitignore
        new file:   test3.txt
        new file:   test4.txt

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git commit -m "add test3.txt and test4.txt"
[master (root-commit) d419021] add test3.txt and test4.txt
3 files changed, 3 insertions(+)
create mode 100644 .gitignore
create mode 100644 test3.txt
create mode 100644 test4.txt

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ git log --oneline
d419021 (HEAD -> master) add test3.txt and test4.txt

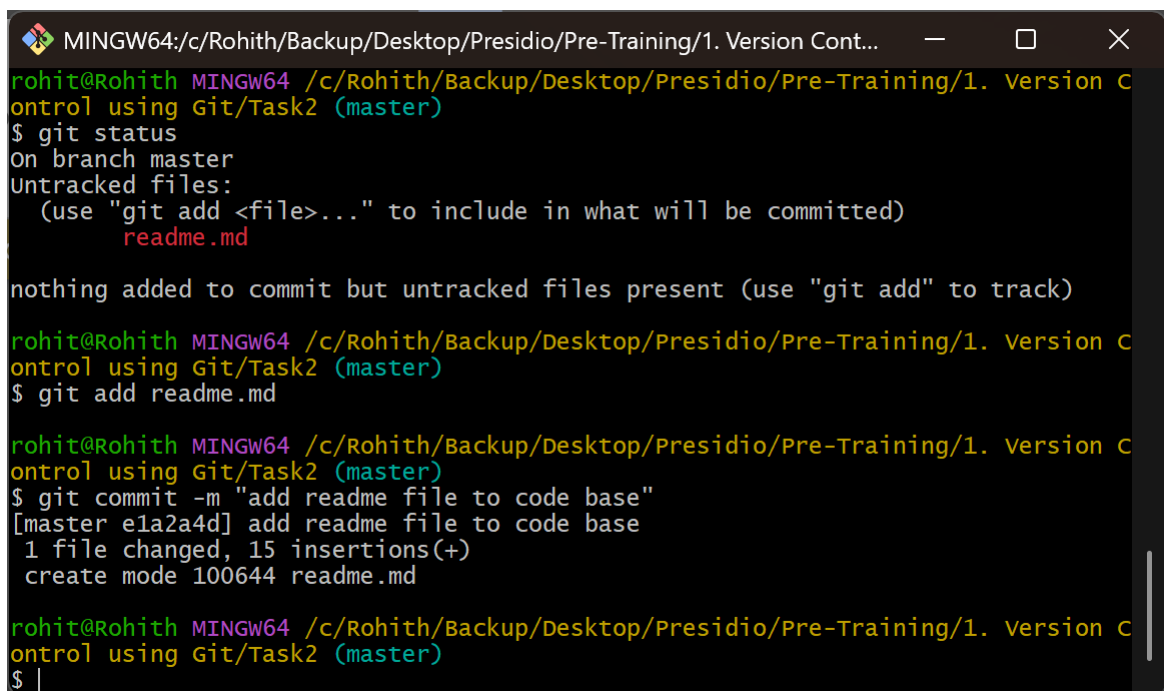
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version C
ontrol using Git/Task2 (master)
$ |
```



The screenshot shows the Visual Studio Code editor interface. The Explorer sidebar on the left displays the file structure of a project named 'Task2', including files like .gitignore, .env, and several test files. The main editor window is open to the '.gitignore' file, which contains the following content:

```
1 # touch
2
3 Creates a new file named index.html if it doesn't already exist. If the file already exists, it simply
4 updates the file's last modified timestamp without changing its content.
5
6 touch index.html
7
8
9 # git log --oneline
10
11 To see a very compressed log where each commit is one line
12
13 # .gitignore
14
15 List the files or directories you want to ignore in the repository. Git does not track those files when
16 you run git add or git commit
```

The status bar at the bottom indicates the current position is Line 16, Column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings. It also shows that the file is formatted with Prettier.



The screenshot shows a terminal window with the following commands and output:

```
MINGW64:/c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
$ git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
  readme.md

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

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
$ git add readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
$ git commit -m "add readme file to code base"
[master e1a2a4d] add readme file to code base
1 file changed, 15 insertions(+)
create mode 100644 readme.md

rohit@Rohith MINGW64 /c/Rohith/Backup/Desktop/Presidio/Pre-Training/1. Version Cont...
$
```