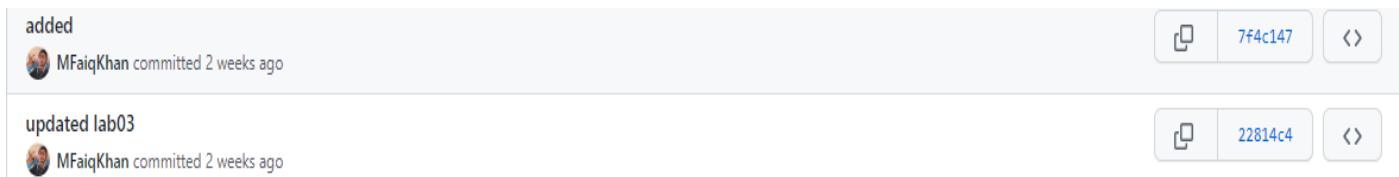


Task 01:

Topics : Starting with Git, Branching & Merging in Git

- Git is a version control system , saves snapshots of every past, current version of your file

E.g:



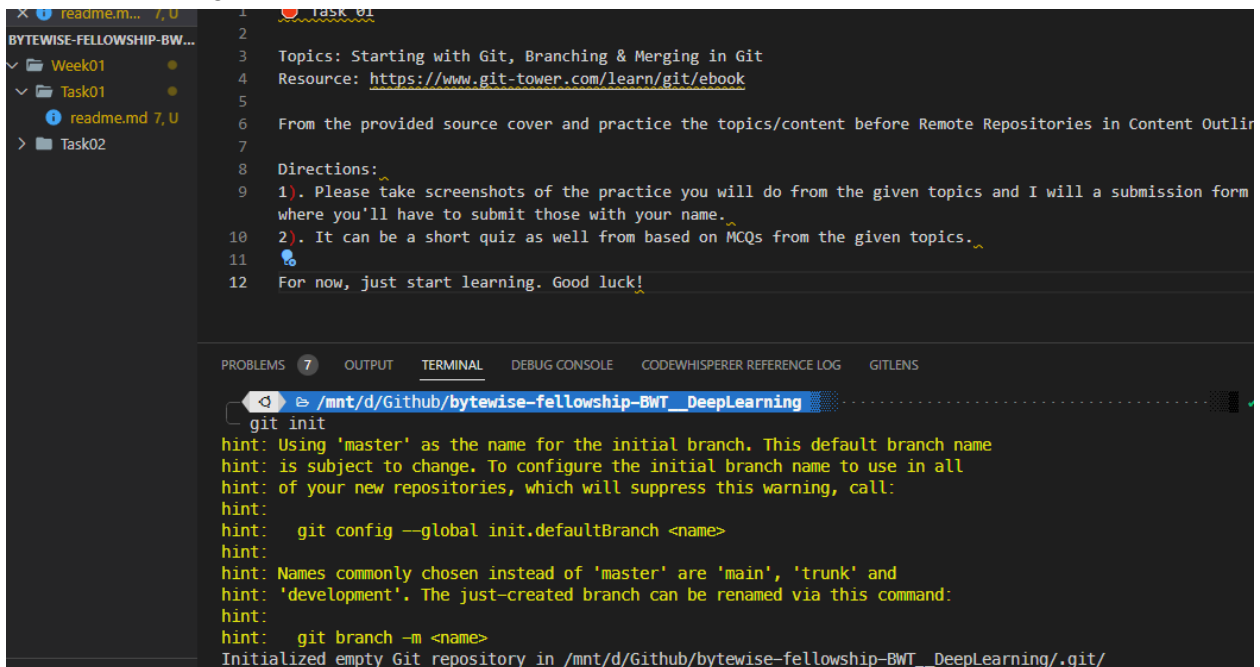
Here I have changed and added new file into my repository, My github shows me previous version snapshot commit named “22814c4” and my current commit “7f4c147” .

The later is the root commit having no parent while second one is the old commit having root commit as the parent .

It includes my changes at that time .

Here the short description “added” tells the user what exactly was changed in the file, In this context, the description is very vague but I actually added a .py file in the repository project.

- Initializing a repo:

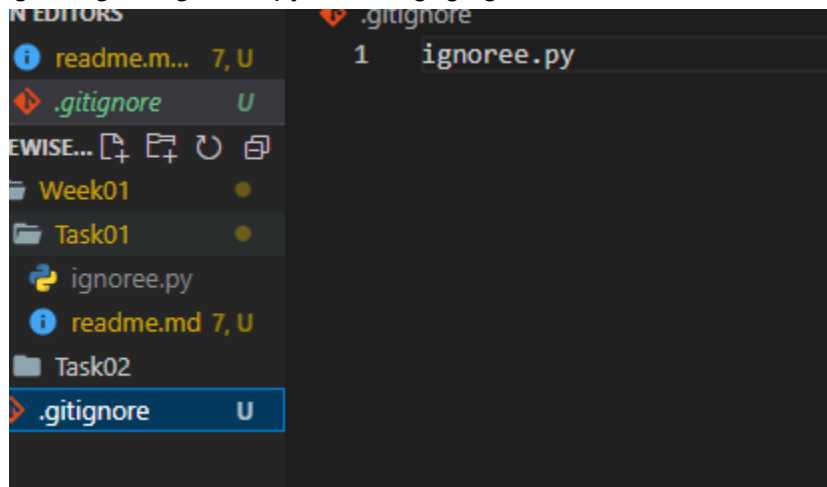


- .git folder using ls -la command

```
ls -la
total 0
wxrwxrwx 1 faiq faiq 512 Mar 15 19:16 .
wxrwxrwx 1 faiq faiq 512 Mar 15 18:30 ..
wxrwxrwx 1 faiq faiq 512 Mar 15 19:16 .git
wxrwxrwx 1 faiq faiq 512 Mar 15 18:40 Week01

/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git master ?1
```

- Ignoring the ignored.py file using .gitignore



- Committing the file:

```
/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git mas
git add -A

/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git mas
git commit -m "task01 "
[master (root-commit) 1669e37] task01
 3 files changed, 13 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 Week01/Task01/readme.md

/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git mas
```

- Checking status through git status :

```

/mnt/d/Github/bytewise-fellowship-BWT_
git status
On branch master
nothing to commit, working tree clean

/mnt/d/Github/bytewise-fellowship-BWT_

```

- Seeing project commit history through git log command

```

Task01
ignoree.py
readme.md 7
Task02
.gitignore

PROBLEMS 7 OUTPUT TERMINAL DEBUG CONSOLE CODEWHISPERER REFERENCE LOG GITLENS

commit 1669e37fd0011f5d40ff757f18d80eabbcb63586 (HEAD -> master)
Author: MFaiqKhan <[redacted]>
Date: Wed Mar 15 19:34:35 2023 +0500

    task01
(END)

```

- Git log -p (detailed logs)

```

commit 1669e37fd0011f5d40ff757f18d80eabbcb63586 (HEAD -> master)
Author: MFaiqKhan <[redacted]>
Date: Wed Mar 15 19:34:35 2023 +0500

    task01

diff --git a/.gitignore b/.gitignore
new file mode 100644
index 0000000..876ab04
--- /dev/null
+++ b/.gitignore
@@ -0,0 +1 @@
+ignoree.py
\ No newline at end of file
diff --git a/Week01/Task01/readme.md b/Week01/Task01/readme.md

```

- Git branch

```
git push origin master
contact-form 1669e37 task01
* master      1669e37 task01
(END)
```

- Git stash list after git stash command

```
/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git
stash@{0}: WIP on master: 1669e37 task01
(END)
```

- Checkout to new branch

```
/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git
git checkout contact-form
Switched to branch 'contact-form'

/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git
git status
On branch contact-form
nothing to commit, working tree clean

/mnt/d/Github/bytewise-fellowship-BWT_DeepLearning on git
```

- Stash applied on new branch only

```
commit d64f07140df793a30613e1709dbc1a345170b6a2 (HEAD -> contact-form)
Author: MFaiqKhan
Date: Wed Mar 15 20:20:38 2023 +0500



    added stash

commit 1669e37fd0011f5d40ff757f18d80eabbcb63586 (origin/master, master)
Author: MFaiqKhan
Date: Wed Mar 15 19:34:35 2023 +0500

    task01
(END)
```

- Lets merged the branch now

```
- git checkout master  
Switched to branch 'master'
```

```
└─   /mnt/d/Github/bytewise-fellowship-BWT_DeepLearn  
└─ git merge contact-form  
Updating 1669e37..d64f071  
Fast-forward  
Week01/Task01/stash.py | 0  
1 file changed, 0 insertions(+), 0 deletions(-)  
create mode 100644 Week01/Task01/stash.py
```