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Git Commands :

1. git init
2. git status
3. git add
4. git commit -m ".."
5. git log

6. git revert
7. git reset –hard
8. git reset --soft
9. git update-ref -d HEAD
10. git rm –cached

1. Create a folder and initialize git:-

```
MINGW64:/c/Users/Care/OneDrive/Desktop/Task

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Task (master)
$ ls

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Task (master)
$ ls -a
./  ../

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Task (master)
$ git init
Initialized empty Git repository in C:/Users/Care/OneDri
ve/Desktop/Task/.git/

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Task (ma
ster)
$ ls -a
./  ../  .git/

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Task (ma
ster)
$ |
```
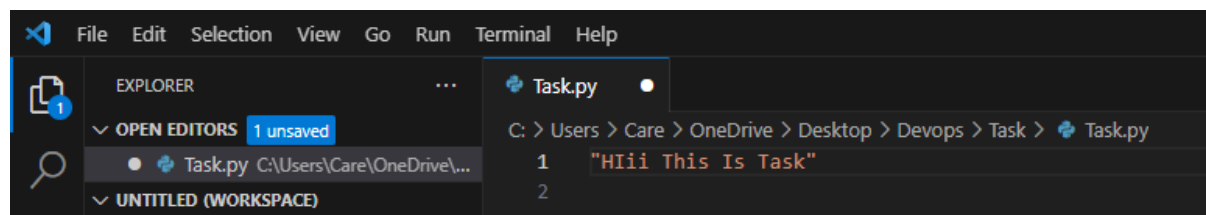
2. Create a file or Working File :

```
File  Edit  Selection  View  Go  Run  Terminal  Help

EXPLORER                    ...        Task.py   ●

OPEN EDITORS  1 unsaved              C: > Users > Care > OneDrive > Desktop > Devops > Task > Task.py
  ●  Task.py  C:\Users\Care\OneDrive\...        1    "HIii This Is Task"
UNTITLED (WORKSPACE)                           2
```

3. Check The Status of file : File is untracked Or Tracked

```
MINGW64:/c/Users/Care/OneDrive/Desktop/Devops/Task

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ ls -a
./  ../  .git/  Task.py

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Task.py

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

4. Add File into Staging Area :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git add Task.py

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Task.py
```
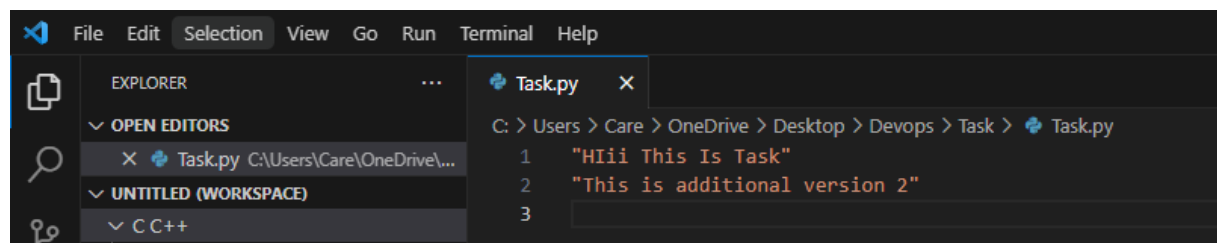
5. Commit The File :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git commit -m "This is a Version 1"
[master (root-commit) 8663294] This is a Version 1
 1 file changed, 1 insertion(+)
 create mode 100644 Task.py
```

6. Update The File :

File Edit Selection View Go Run Terminal Help

EXPLORER   ...   🐍 Task.py   ✕

∨ OPEN EDITORS   C: > Users > Care > OneDrive > Desktop > Devops > Task > 🐍 Task.py
    ✕ 🐍 Task.py C:\Users\Care\OneDrive\...   1   "HIii This Is Task"
∨ UNTITLED (WORKSPACE)   2   "This is additional version 2"
  ∨ C C++   3

7. Check Status : Modified

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git status
On branch master
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:   Task.py

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

8. Pass into the staging Area & Commit the New Version :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git add Task.py

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git commit -m "This is a Version 2"
[master 17fbacf] This is a Version 2
 1 file changed, 1 insertion(+)
```

9. Check The log :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git log
commit 2044c9d730ab374e0648914a7291128726e86d6f (HEAD -> master)
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:59:47 2024 +0530

    this is another file

commit 17fbacf58d2f286b8baafd187d1dfeafa259ae2c
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:54:10 2024 +0530

    This is a Version 2

commit 86632946b28e4f7ab949347b4b3c8dd1c6914976
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:52:39 2024 +0530

    This is a Version 1
```

10. Use of git reset --soft command:

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git reset --soft HEAD~1

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git log
commit 17fbacf58d2f286b8baafd187d1dfeafa259ae2c (HEAD -> master)
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:54:10 2024 +0530

    This is a Version 2

commit 86632946b28e4f7ab949347b4b3c8dd1c6914976
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:52:39 2024 +0530

    This is a Version 1
```

11. Use of git reset --soft command:

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git reset --hard HEAD~1
HEAD is now at 8663294 This is a Version 1

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git log
commit 86632946b28e4f7ab949347b4b3c8dd1c6914976 (HEAD -> master)
Author: Siddhesh1214 <siddheshghangale744@gmail.com>
Date:   Wed Feb 14 12:52:39 2024 +0530

    This is a Version 1

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
```

12. Use "git update-ref -d HEAD" to uncommit the initial commit :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git update-ref -d HEAD

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git log
fatal: your current branch 'master' does not have any commits yet

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   Task.py
```

13. To remove file from staged area :

```
Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git rm --cached Task.py
rm 'Task.py'

Care@LAPTOP-TIIF4882 MINGW64 ~/OneDrive/Desktop/Devops/Task (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Task.py
```