

# Git & Git Hub Tasks

- Install Git.
- Create a repo in github with README.md and .ignore file.

ViaqasTaimoor	Create .gitignore	
Name		Last commit message
.gitignore		Create .gitignore
README.md		Create README.md

- Clone the created repo to local.

```
Viaqas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (main)
$ ls
README.md
```

- Create two files in local repo.
- Commit two files and push to central Repository.

ViaqasTaimoor	Added two new files	dfb8831 · now	3 Commits
.gitignore	Create .gitignore	16 minutes ago	
DevOps	Added two new files	now	
Line	Added two new files	now	
README.md	Create README.md	17 minutes ago	

- Create a branch in local and create a sample file and push to central.

This branch is 1 commit ahead of main .		
Contribute		
ViaqasTaimoor	New branch and lie	1d6ebf8 · 4 minutes ago
.gitignore	Create .gitignore	31 minutes ago
DevOps	Added two new files	15 minutes ago
Lie	New branch and lie	4 minutes ago
Line	Added two new files	15 minutes ago
README.md	Create README.md	32 minutes ago
Sample	added sample	11 minutes ago

# Git & Git Hub Tasks

- Create a branch in github and clone that to local.

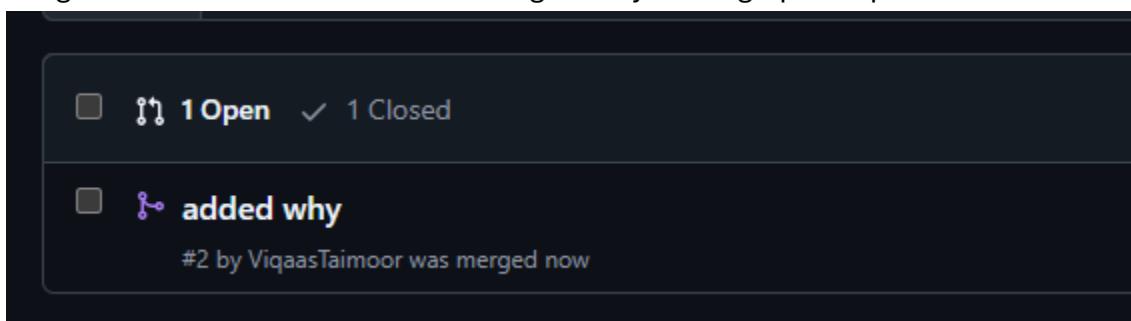
```
Viaaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git branch --list
  New
* Polo
  main
```

- Merge the created branch with master in git local.

```
Viaaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (main)
$ git merge Polo
Updating 290717a..aa709de
Fast-forward
  killer | 0
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 killer

Viaaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (main)
$ ls
DevOps  Line  README.md  sample  killer
```

- Merge the created branch with master in github by sending a pull request.



- Create a file in local and send that to branch in github.

```
$ git log
commit 9929b1395a5ddd6acd8c69ce5e00f76e0bffd25e (HEAD -> Polo,
Polo)
Author: viaaasTaimoor <viaaastaimoor@gmail.com>
Date:   Fri Dec 26 13:15:36 2025 +0530

  added fighter
```

# Git & Git Hub Tasks

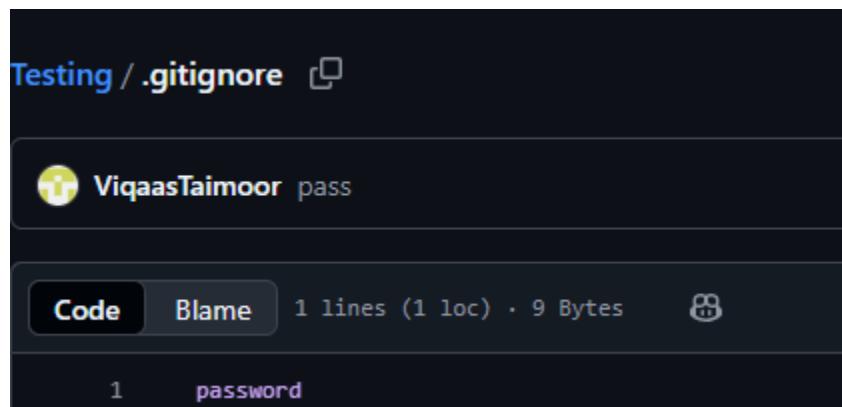
- Clone only a branch from github to local.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git branch --list
  New
* Polo
  main

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Polo)
$ git checkout -b Marco origin/Marco
Switched to a new branch 'Marco'
branch 'Marco' set up to track 'origin/Marco'.

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps Line README.md sample why killer
```

- Create a file with all passwords and make that untrackable with git.



# Git & Git Hub Tasks

- Make a commit and make that commit reset without savings changes.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit d6716c4b4de8e69aa069275f1e399de7543f8989 (HEAD -> Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:23:41 2025 +0530

    added reset

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git reset --hard HEAD~1
HEAD is now at 1516b85 pass

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 1516b85fa8ac7022517e59c5f638dec7830f3e6b (HEAD -> Marco, origin
/Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:21:18 2025 +0530

    pass

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
Devops  Line  README.md  sample  why  killer  password
```

- Revert a committed commit to the older version.

```
Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 4316a7c843ec98e482ff3a84fc46a7f026793cb2 (HEAD -> Marco)
Author: viqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:26:59 2025 +0530

    added revert

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git revert 4316a
[Marco 6a7caf3] Revert "added revert"
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 revert

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps  Line  README.md  sample  why  killer  password

Viqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git log -1
commit 6a7caf3fc2ad19c667e9545a71ec816f722918bc (HEAD -> Marco)
Author: ViqaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:27:32 2025 +0530

    Revert "added revert"

This reverts commit 4316a7c843ec98e482ff3a84fc46a7f026793cb2.
```

# Git & Git Hub Tasks

- Push a file to stash without saving the changes and work on another file.

```
vqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git stash list
stash@{0}: WIP on Marco: 6a7caf3 Revert "added revert"
```

- Undo the stash file and start working on that again.

```
vqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ git restore --source=stash@{0} local

vqaas@LAPTOP-VG025G9U MINGW64 ~/Desktop/Testing/Testing (Marco)
$ ls
DevOps Line README.md sample why killer local password
```

- Generate a ssh-keygen and configure it into github.

Authentication keys

 ec2 SHA256:qX4UxghNKZdc674:jCA9pip5jU/tfZ2ZBcgPqjj81Z3M Added on Dec 22, 2025 Last used within the last week — Read/write	<button>Delete</button>
 Laptop SHA256:u5+KB0311ExF+zurHk5o+CURDrhiGkNR0hGQp07kxko Added on Dec 23, 2025 Last used within the last week — Read/write	<button>Delete</button>

- Configure webhooks to github.

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

 http://18.206.12.243:8080/github-w... (push) Last delivery was successful.	<button>Edit</button>	<button>Delete</button>
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- Basic understanding of .git file: The .git directory is a hidden folder that stores the entire version history, configuration, and metadata of a Git repository.

# Git & Git Hub Tasks

- Check all the logs of git.

```
$ git log
commit 358e03d6d07a60e6e789875c517306df8e74f376 (HEAD -> Polo, origin/Polo)
Author: VikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 14:44:10 2025 +0530

    added files to test

commit 9929b1395a5ddd6acd8c69ce5e00f76e0bffd25e
Author: vikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:15:36 2025 +0530

    added fighter

commit bb11862be6c925418b53b0c588e0c0168cb219e2
Author: VikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:11:03 2025 +0530

    added why

commit aa709de1231c7d7715f01d62c0d699490d015503 (origin/main, origin/develop)
Author: VikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:11:03 2025 +0530
```

- Rename the commit message.

```
$ git log
commit 7c637d0882223d5345e8eeb9b181c00e45821adc (HEAD -> Polo)
Author: VikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 14:44:10 2025 +0530

    I did not
```

- Merge multiple commits into single commit.

```
commit 30e93fc7df7e504b12704bef12dbded5b04c00d1 (HEAD -> Polo)
Author: VikaasTaimoor <viqaastaimoor@gmail.com>
Date:   Fri Dec 26 13:15:36 2025 +0530

    added fighter

    I did not
```