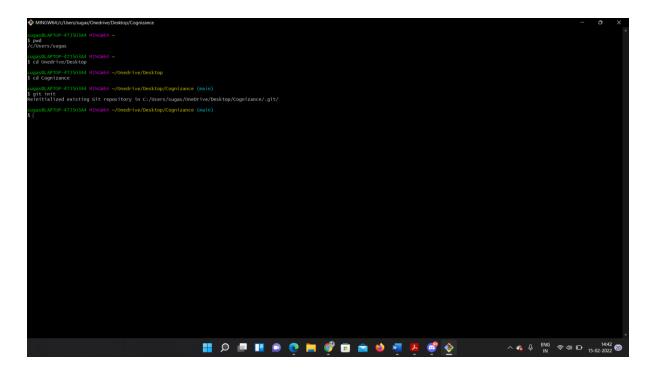
COGNIZANCE

GIT & GITHUB OPERATIONS

To create a Github Local Repo:



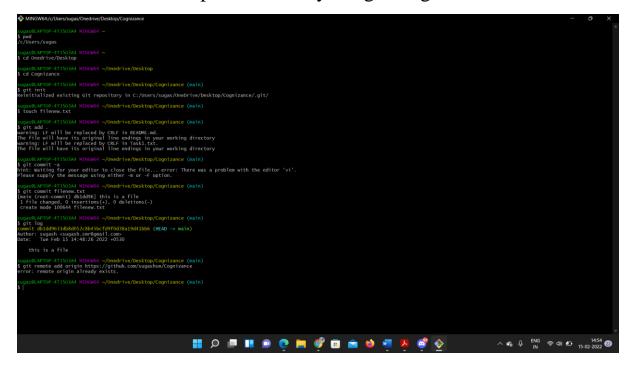
Git add:

It puts our file to stage.

For creating a file use touch<filename> cmd

Git remote:

Git remote cmd is responsible for syncing changes.



Git branch:

It is like a snapshot for your changes. Instead of copying from 1 dir to other.

```
© MINORARA/U/Ben/Inquage/Deedhen/Deedhen/Coginizance /

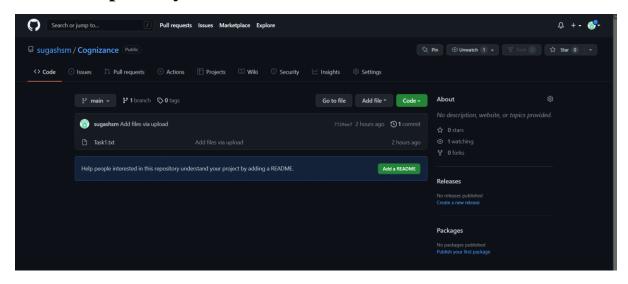
| Committee | Committ
```

Git push:

Upload all changes from local repositories to their respective remote repositorie.

```
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 224 bytes | 224.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Sanjay-BlaCkn/Cognizance.git
 * [new branch] main -> main
branch 'main' set up to track 'origin/main'.
```

Remote repository:



Git clone:

It helps to bring or copy an existing repository to a new one.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git clone https://github.com/sugashsm/Cognizance
Cloning into 'Cognizance'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
```

Git merge:

Merge files from given branch to current one.

```
$ git merge
Updating db5e181..6913f8e
Fast-forward
README.md | 1 +
1 file changed, 1 insertion(+)
```

Git checkout:

This cmd helps you to replace all files with remote repo from a branch.

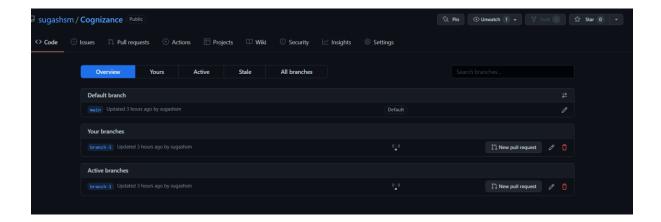
```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)

$ git checkout
A README.md
A Task1.txt
A github/task1
A task1
```

Git checkout -b:

It creates a new branch from currents branch's tip.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git checkout -b branch-1
Switched to a new branch 'branch-1'
```



Git fetch:

Downloads changes from remote repo to local repo.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (branch-1)
$ git fetch
From https://github.com/sugashsm/Cognizance
* [new branch] branch-1 -> origin/branch-1
```

Git reset:

Makes the current branch point to some branch.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git reset

sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git log --online
fatal: unrecognized argument: --online

sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git log --oneline
db1dd96 (HEAD -> main, branch-1) this is a file

sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ |
```

Git rebase:

It is a alternative to merge cmd.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main) $ git rebase branch-1 Current branch main is up to date.
```

Git status:

Displays the current state of working directoy.

```
sugas@LAPTOP-4TJ503A4 MINGW64 ~/Onedrive/Desktop/Cognizance (main)
$ git status
On branch main
Changes to be committed:
   (use "git restore --staged <file>..." to unstage)
        new file: Cognizance
        new file: README.md
        new file: Task1.txt
        new file: github/task1
        new file: task1
```

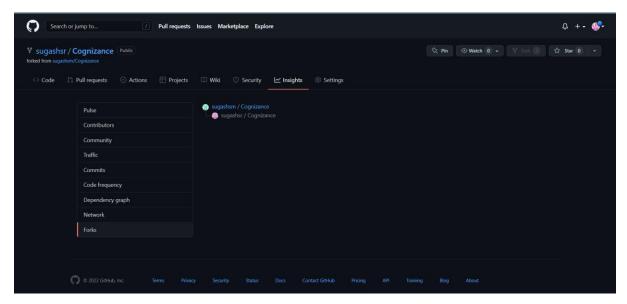
Git config –list –show-origin:

```
Sugas@LAPTOP-4TJ503A4 MINGW64 ~

$ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttppath=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/sugas/.gitconfig user.name=sugash
file:C:/Users/sugas/.gitconfig filter.lfs.clean=git-lfs smudge -- %f
file:C:/Users/sugas/.gitconfig filter.lfs.clean=git-lfs smudge -- %f
file:C:/Users/sugas/.gitconfig filter.lfs.smudge=git-lfs filter-process
file:C:/Users/sugas/.gitconfig filter.lfs.required=true
```

Git fork:

Fork will create a copy of the repository in your GitHub account so that you can make changes to the project.



Done by,
Sugash Srimari R
[CH.EN.U4CYS21082]