COGNIZANCE

TASK-1(GIT & GITHUB)

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1.Creating a Repository:

```
malas@SreemanRam MINGW64 /d (master)
$ mkdir Cognizance

malas@SreemanRam MINGW64 /d (master)
$ cd Cognizance

malas@SreemanRam MINGW64 /d/Cognizance (master)
$ mkdir Task-1

malas@SreemanRam MINGW64 /d/Cognizance (master)
$ git clone https://github.com/Aeest3104/Cognizance.git
Cloning into 'Cognizance'...
warning: You appear to have cloned an empty repository.
```

```
malas@SreemanRam MINGW64 /d/Cognizance (master)
$ cd Task-1

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git init
Initialized empty Git repository in D:/Cognizance/Task-1/.git/

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ touch hel.cpp
```

2.Git add:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

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

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

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git add hel.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

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

3.Git status:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

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

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

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git add hel.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git status
On branch master

No commits yet

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

4.Git commit:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git commit -m "c code"
[master (root-commit) 3fdf7e5] c code
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 hel.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git remote add origin https://github.com/Aeest3104/Cognizance.git

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 220.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Aeest3104/Cognizance.git
 * [new branch]      master -> master
```

5.Git checkout:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git branch File1

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git checkout File1
Switched to branch 'File1'
```

6.Git checkout –b:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (File1)
$ git checkout -b File2
Switched to a new branch 'File2'
```

7.Git clone:

```
malas@SreemanRam MINGW64 /d (master)
$ mkdir Cognizance

malas@SreemanRam MINGW64 /d (master)
$ cd Cognizance

malas@SreemanRam MINGW64 /d/Cognizance (master)
$ mkdir Task-1

malas@SreemanRam MINGW64 /d/Cognizance (master)
$ git clone https://github.com/Aeest3104/Cognizance.git
Cloning into 'Cognizance'...
warning: You appear to have cloned an empty repository.
```
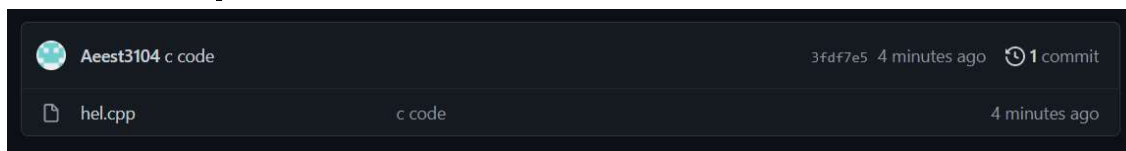
8.Git Fetch:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git fetch
```

9.Git commit-a:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git commit -a
[master ad0d6fc] file.py
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file.py
```

```
MINGW64/d/Cognizance/Task-1                                                    -  □  ×
file.py |
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch master
# Changes to be committed:
#       new file:   file.py
#




D:/Cognizance/Task-1/.git/COMMIT_EDITMSG[+] [unix] (13:29 15/02/2022)      1,9 All
-- INSERT --
```

10.Git push:

```
🌐 Aeest3104 c code                          3fdf7e5 4 minutes ago  🕐 1 commit
📄 hel.cpp                        c code                        4 minutes ago
```

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git commit -m "c code"
[master (root-commit) 3fdf7e5] c code
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 hel.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git remote add origin https://github.com/Aeest3104/Cognizance.git

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 220 bytes | 220.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/Aeest3104/Cognizance.git
 * [new branch]      master -> master
```

11.Git merge:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git merge File1
Updating 3fdf7e5..10b9078
Fast-forward
 d.cpp | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 d.cpp
```

12.Git pull:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git pull origin master
From https://github.com/Aeest3104/Cognizance
 * branch            master      -> FETCH_HEAD
Already up to date.
```

13.Git reset

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git reset --soft
```

14.Git rebase:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git checkout -b rebase1
Switched to a new branch 'rebase1'

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (rebase1)
$ git add fi.cpp
fatal: pathspec 'fi.cpp' did not match any files

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (rebase1)
$ touch testrun.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (rebase1)
$ git add testrun.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (rebase1)
$ git commit -m "it's a test"
[rebase1 fcc6dd4] it's a test
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 testrun.cpp

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (rebase1)
$ git checkout master
Switched to branch 'master'

malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git rebase rebase1
Successfully rebased and updated refs/heads/master.
```

15.Git config --list—show-origin:

```
malas@SreemanRam MINGW64 /d/Cognizance/Task-1 (master)
$ git config --list --show-origin

file:D:/Git/etc/gitconfig        diff.astextplain.textconv=astextplain
file:D:/Git/etc/gitconfig        filter.lfs.clean=git-lfs clean -- %f
file:D:/Git/etc/gitconfig        filter.lfs.smudge=git-lfs smudge -- %f
file:D:/Git/etc/gitconfig        filter.lfs.process=git-lfs filter-process
file:D:/Git/etc/gitconfig        filter.lfs.required=true
file:D:/Git/etc/gitconfig        http.sslbackend=openssl
file:D:/Git/etc/gitconfig        http.sslcainfo=D:/Git/mingw64/ssl/certs/ca-bundle.crt
file:D:/Git/etc/gitconfig        core.autocrlf=true
file:D:/Git/etc/gitconfig        core.fscache=true
file:D:/Git/etc/gitconfig        core.symlinks=false
file:D:/Git/etc/gitconfig        pull.rebase=false
file:D:/Git/etc/gitconfig        credential.helper=manager-core
file:D:/Git/etc/gitconfig        credential.https://dev.azure.com.usehttppath=true
file:D:/Git/etc/gitconfig        init.defaultbranch=master
file:C:/Users/malas/.gitconfig   user.name=ch.en.u4cse21252@ch.students.amrita.edu
file:C:/Users/malas/.gitconfig   user.email=ch.en.u4cse21252@ch.students.amrita.edu
file:.git/config        core.repositoryformatversion=0
file:.git/config        core.filemode=false
file:.git/config        core.bare=false
file:.git/config        core.logallrefupdates=true
file:.git/config        core.symlinks=false
file:.git/config        core.ignorecase=true
file:.git/config        remote.origin.url=https://github.com/Aeest3104/Cognizance.git
file:.git/config        remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
```

16.Git Fork