



AMRITA

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21063 CSE – A

2. Creating Folder

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co
$ git init
Initialized empty Git repository in C:/Users/SIVASANKAR/Desktop/co/.git/

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git config user.name "sivasankar17"

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git config user.email "sivasankar03r@gmail.com"

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git add "task 1"

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git remote add origin https://github.com/sivasankar17/cognizance.git

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git commit -m "first"
[master (root-commit) e073efc] first
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 task 1/bubble.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git remote add origin https://github.com/sivasankar17/cognizance.git
error: remote origin already exists.

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git push -u origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Writing objects: 100% (4/4), 250 bytes | 83.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/sivasankar17/cognizance.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ |
```

Git add

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git add "task 1"
```

Git checkout

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git checkout master
Already on 'master'
Your branch is up to date with 'origin/master'.
```

Git checkout -b

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git checkout -b branch1
Switched to a new branch 'branch1'
```

Git Commit

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ touch file.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git add file.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git commit
[branch1 f60b796] CHANGES MADE
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file.txt
```

Git Commit -a

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ touch file1.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git add file1.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ touch file2.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git add file2.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git commit -a
[branch1 cafe71d] changes made
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file1.txt
 create mode 100644 file2.txt
```

Git fetch

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git fetch
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 681 bytes | 15.00 KiB/s, done.
From https://github.com/sivasankar17/cognizance
 e073efc..19903ab  master    -> origin/master
```

Git Merge

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ touch html.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git add html.txt

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (branch1)
$ git checkout master
Switched to branch 'master'
A       html.txt
Your branch is behind 'origin/master' by 1 commit, and can be fast-forwarded.
  (use "git pull" to update your local branch)

SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git merge branch1
Updating e073efc..cafe71d
Fast-forward
 file.txt | 0
 file1.txt | 0
 file2.txt | 0
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file.txt
 create mode 100644 file1.txt
 create mode 100644 file2.txt
```

Git Pull

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git pull
Merge made by the 'ort' strategy.
 task 1/bubble.txt | 1 +
 1 file changed, 1 insertion(+)
```

Git Push

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git push -u origin master
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 737 bytes | 737.00 KiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 1 local object.
To https://github.com/sivasankar17/cognizance.git
 19903ab..37b3074 master -> master
branch 'master' set up to track 'origin/master'.
```

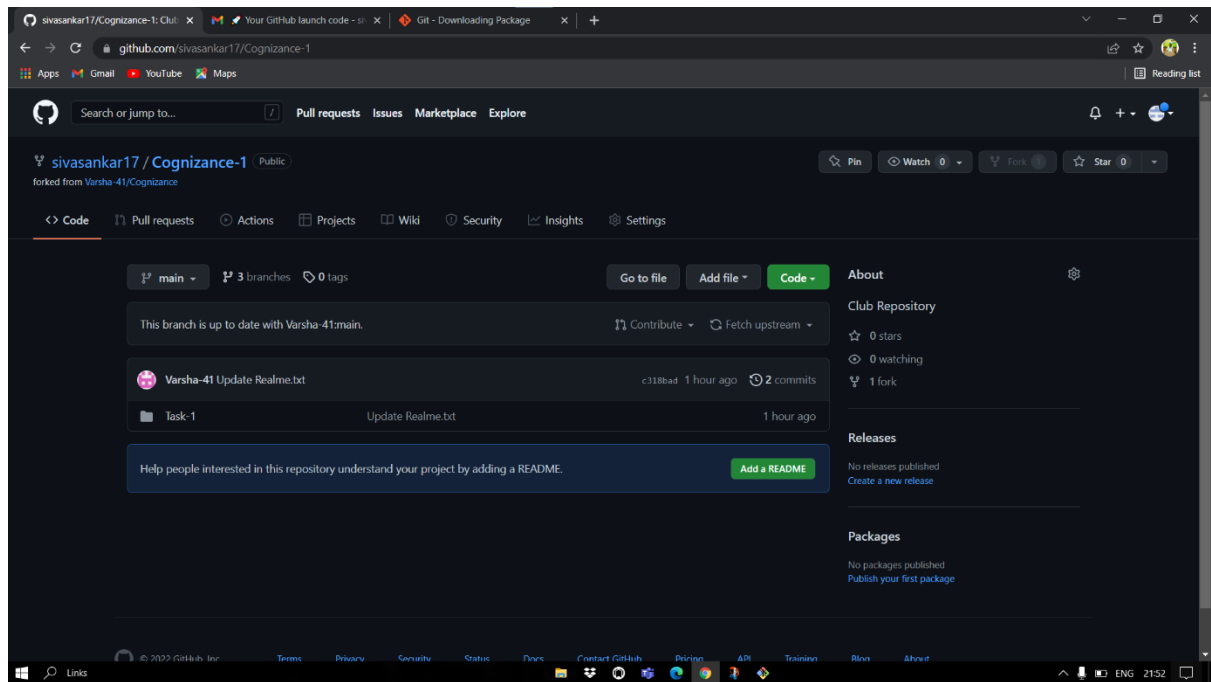
Git Reset

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git reset --hard
HEAD is now at 37b3074 Merge branch 'master' of https://github.com/sivasankar17/cognizance
```

Git Rebase

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ git rebase master
Current branch master is up to date.
```

FORK



3.

```
SIVASANKAR@LAPTOP-8DTPAPD1 MINGW64 ~/Desktop/co (master)
$ 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 http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
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 pull.rebase=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:.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 user.name=sivasankar17
file:.git/config user.email=sivasankar03r@gmail.com
file:.git/config remote.origin.url=https://github.com/sivasankar17/cognizance.git
file:.git/config remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config branch.master.remote=origin
file:.git/config branch.master.merge=refs/heads/master
file:.git/config branch.branch1.remote=origin
file:.git/config branch.branch1.merge=refs/heads/branch1
```