- 1.Create a repository with name "Cognizance" on GitHub using Git Bash.
- 2. Create a folder with name "Task-1" in the repository and perform the Git operations using Git Bash.

1. git add:

2. git commit:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~ (master)
$ cd C:/Users/PRATHIBHA/Documents
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents (master)
$ mkdir Task-1
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents (master)
$ cd Task-1
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git init
Initialized empty Git repository in C:/Users/PRATHIBHA/Documents/Task-1/.git/
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git remote add origin https://github.com/Prathibha28/Cognizance.git
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ touch text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add . text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git commit -m "added text.txt file"
[master (root-commit) 89254d0] added text.txt file
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ touch README.md
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add . README.md
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git commit -m "added file called README.md"
[master d8a572a] added file called README.md
1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ vi text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git commit -m"added text for text.txt"
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)
no changes added to commit (use "git add" and/or "git commit -a")
```

3.git checkout:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add .
warning: LF will be replaced by CRLF in text.txt.
The file will have its original line endings in your working directory
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
         modified: text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ cat text.txt
name: prathibha reddy maram
branch : ECE
year : first year
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ vi text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ cat text.txt
name: prathibha reddy maram
branch : ECE
year : first year
this is next line
and
next line
and then
next line
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git checkout -- text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ cat text.txt
name: prathibha reddy maram
branch : ECE
year : first year
```

4.git checkout -b:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)

$ git checkout -b branch2

Switched to a new branch 'branch2'

PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (branch2)

$ git checkout master

Switched to branch 'master'
```

5.git clone:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git clone https://github.com/Prathibha28/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (15/15), done.
remote: Total 25 (delta 3), reused 22 (delta 3), pack-reused 0
Receiving objects: 100% (25/25), done.
Resolving deltas: 100% (3/3), done.
```

6.git commit -a:

Prathibha28 committed by me through git bash		2c711aa 1 minute ago 🐧 11 commits
Cognizance	inital commit	1 hour ago
README.md	added file called README.md	3 hours ago
file1.txt	commited file1.txt	2 hours ago
file2.txt	commited file2.txt	12 minutes ago
file3.txt	commited file3	2 hours ago
file4.txt	commited by me through git bash	1 minute ago
name.txt	inital commit	1 hour ago
text.txt	commited a.txt	3 hours ago

7.git fetch:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~ (master)

$ git fetch
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (15/15), done.
remote: Total 25 (delta 3), reused 22 (delta 3), pack-reused 0
Unpacking objects: 100% (25/25), 2.65 KiB | 54.00 KiB/s, done.
From https://github.com/Prathibha28/Cognizance

* [new branch] main -> origin/main
```

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
Cognizance/ README.md a.txt b.txt name.txt text.txt x.txt y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git rm a.txt
rm 'a.txt'
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git rm b.txt
rm 'b.txt'
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git rm x.txt
rm 'x.txt'
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git rm y.txt
rm 'y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
Cognizance/ README.md name.txt text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ touch file1.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add file1.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git commit -m "committed file1.txt"
[master 68e7800] committed file1.txt
4 files changed, 0 insertions(+), 0 deletions(-)
delete mode 100644 b.txt
rename a.txt => file1.txt (100%)
delete mode 100644 x.txt
 delete mode 100644 y.txt
```

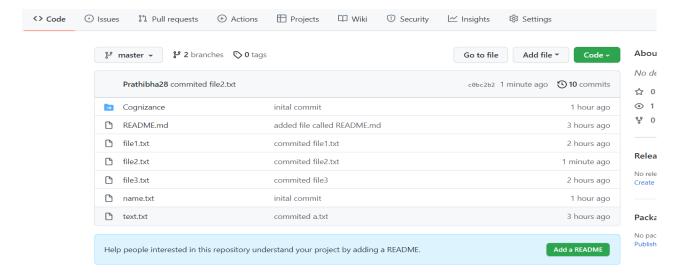
8.git merge:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ touch a.txt b.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add a.txt;git commit -m"commited a.txt"
[master 8f08643] commited a.txt
2 files changed, 4 insertions(+)
create mode 100644 a.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add b.txt;git commit -m"commited b.txt"
[master f5e0833] commited b.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 b.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git log --oneline
 5e0833 (HEAD -> master) committed b.txt
 f08643 committed a.txt
d8a572a added file called README.md
89254d0 added text.txt file
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git branch feature
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git branch
  feature
 master
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git checkout feature
Switched to branch 'feature'
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ touch x.txt y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ git add x.txt;git commit -m"commited x.txt"
[feature 35a8881] committed x.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 x.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ git add y.txt;git commit -m"commited y.txt"
[feature 31c05ba] commited y.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
README.md a.txt b.txt text.txt x.txt y.txt
```

9.get pull:

10.git push:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ touch file2.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add file2.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git commit -m"commited file2.txt"
[master c0bc2b2] committed file2.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 file2.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add .
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git remote -v
origin https://github.com/Prathibha28/Cognizance.git (fetch)
origin https://github.com/Prathibha28/Cognizance.git (push)
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git push -u origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 236 bytes | 236.00 KiB/s, done.
Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100\% (1/1), completed with 1 local object.
To https://github.com/Prathibha28/Cognizance.git
   22817dc..c0bc2b2 master -> master
branch 'master' set up to track 'origin/master'.
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
```



11.git reset:

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
  touch name.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add name.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ vi text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ vi name.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git add .
warning: LF will be replaced by CRLF in name.txt.
The file will have its original line endings in your working directory
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
README.md a.txt b.txt name.txt text.txt x.txt y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git status
On branch master
Changes to be committed:
(use "git restore --staged <file>..." to unstage)
        modified:
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
README.md a.txt b.txt name.txt text.txt x.txt y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git ls-files
README.md
a.txt
b.txt
name.txt
text.txt
x.txt
y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git reset name.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
README.md a.txt b.txt name.txt text.txt x.txt y.txt
```

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)

$ git reset name.txt

PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)

$ ls

README.md a.txt b.txt name.txt text.txt x.txt y.txt

PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)

$ git ls-files

README.md

a.txt

b.txt

text.txt

x.txt

y.txt
```

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git checkout feature
Switched to branch 'feature'
        text.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ rn a.txt
bash: rn: command not found
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ rm a.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ rm b.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ rm x.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ rm y.txt
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ git commit -m"deleted a.txt,b.txt,x.txt,y.txt files
[feature ce8f8a6] deleted a.txt,b.txt,x.txt,y.txt files
 1 file changed, 2 insertions(+), 2 deletions(-)
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
$ 1s
README.md name.txt text.txt
```

12.Git rebase:

```
$ git log --oneline
8e67d66 (HEAD -> feature) committed b.txt
059095a committed a.txt
9623e64 committed file
ce8f8a6 deleted a.txt,b.txt,x.txt,y.txt files
  ce8f8a6 deleted a.txt,b.txt,x.txt,y.
31c05ba commited y.txt
35a8881 commited x.txt
f5e0833 commited b.txt
8f08643 commited a.txt
d8a572a added file called README.md
89254d0 added text.txt file
  PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
 $ git checkout master
  Switched to branch 'master'
  Your branch is up to date with 'origin/master'.
  PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
 $ touch c.txt
 PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)

$ git add c.txt;git commit -m"commited c.txt"

[master 472cd81] commited c.txt

1 file changed, 0 insertions(+), 0 deletions(-)

create mode 100644 c.txt
 PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
$ git checkout feature
warning: unable to rmdir 'Cognizance': Directory not empty
Switched to branch 'feature'
    RATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)
 $ git rebase master
 dropping 059095a44e94f589fa7788aafcda4d2cbe1f3379 commited a.txt -- patch contents already upstream Successfully rebased and updated refs/heads/feature.
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)

$ git log --oneline master

472cd81 (master) commited c.txt

2c711aa (origin/master) commited by me through git bash

c0bc2b2 commited file2.txt

22817dc (branch2, branch1) inital commit

7f7b7e6 commited file3

68e7800 commited file1.txt

31c05ba commited y.txt

35a8881 commited y.txt

55e0833 commited b.txt

8f08643 commited a.txt

d8a572a added file called README.md

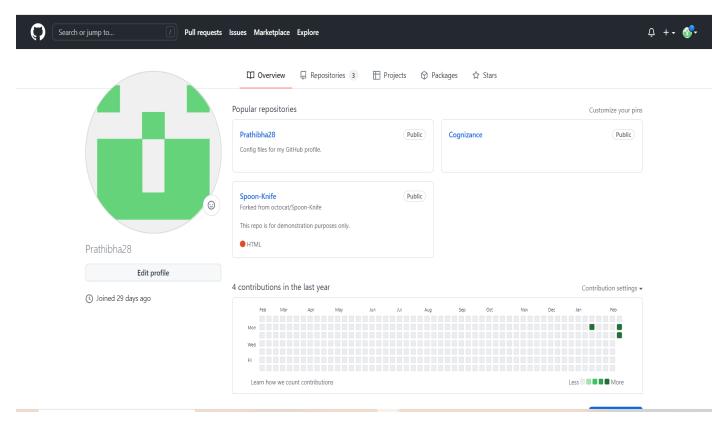
89254d0 added text.txt file
```

```
PRATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (feature)

$ git log --oneline feature
474e886 (HEAD -> feature) commited b.txt
f6427be commited file
62b9925 deleted a.txt,b.txt,x.txt,y.txt files
472cd81 (master) commited c.txt
2c711aa (origin/master) commited by me through git bash
c0bc2b2 commited file2.txt
22817dc (branch2, branch1) inital commit
7f7b7e6 commited file3
68e7800 commited file1.txt
31c05ba commited y.txt
35a8881 commited x.txt
f5e0833 commited b.txt
8f08643 commited a.txt
d8a572a added file called README.md
89254d0 added text.txt file
```

13.get fork:

I have forked a repository from google



```
RATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (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 http.sslbackend=openssl
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:/Users/PRATHIBHA/.gitconfig init.defaultbranch=master
user.name=Prathibha28
file:C:/Users/PRATHIBHA/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/PRATHIBHA/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/PRATHIBHA/.gitconfig filter.lfs.smudge=git-lfs filter-process
file:C:/Users/PRATHIBHA/.gitconfig filter.lfs.smudge=git-lfs filter-process
file:C:/Users/PRATHIBHA/.gitconfig filter.lfs.required=true
  file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
                                                               core.repositoryformatversion=0
core.filemode=false
  file:.git/config
 file:.git/config
file:.git/config
file:.git/config
                                                               core.bare=false
core.logallrefupdates=true
 file:.git/config
file:.git/config
                                                                core.symlinks=false
                                                                core.ignorecase=true
  file:.git/config
file:.git/config
                                                               remote.origin.url=https://github.com/Prathibha28/Cognizance.git
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.main.remote=origin
                                                                branch.main.merge=refs/heads/main
 file:.git/config
    RATHIBHA@LAPTOP-8UAGFC24 MINGW64 ~/Documents/Task-1 (master)
 📙 | 🗹 📙 🖚 | Task-1
 File Home Share
    ★ Lut

N= Copy path
                                                     Properties History Invert selection
                  Clipboard
                                                                Organize
                                                                                                                               Open
   ✓ 💍 🔎 Search Task-1
      OneDrive - Person Name
                                     📜 .git
                                                                                                                            File folder
                                                                                             2/15/2022 6:51 PM
      This PC
                                       Cognizance
                                                                                             2/15/2022 11:13 AM
                                                                                                                            File folder
       3D Objects
                                      Пс
                                                                                             2/15/2022 2:46 PM
                                                                                                                            Text Document
                                                                                                                                                             0 KB
       Desktop
                                      file1
                                                                                             2/15/2022 2:46 PM
                                                                                                                            Text Document
                                                                                                                                                              0 KB
       Documents
                                      file2
                                                                                             2/15/2022 2:46 PM
                                                                                                                            Text Document
                                                                                                                                                              0 KB
```

