COGNIZANCE CLUB

PRELIMINARY

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Topic: Task 1(Git and GitHub Operations)

GIT Operations:

1) Git add

```
PS D:\DHARAN\Task1> git init
Initialized empty Git repository in D:/DHARAN/Task1/.git/
PS D:\DHARAN\Task1> git add 123main.txt
```

2) Git commit

```
PS D:\DHARAN\Task1> git commit -m "Example Task Completed"
On branch main
Your branch is up to date with 'origin/main'.

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)
        modified:   123main.txt

no changes added to commit (use "git add" and/or "git commit -a")
```

Dharan05kumar Example Task Completed   3a8dbbd 10 minutes ago 1 commit

| 123main.txt | Example Task Completed | 10 minutes ago |

Help people interested in this repository understand your project by adding a README. **Add a README**

3) Git push

```
PS D:\DHARAN\Task1> git push -u origin main
```

Dharan05kumar / Example Public

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main   Example / 123main.txt   Go to file   ...

Dharan05kumar Example Task Completed   Latest commit 3a8dbbd 11 minutes ago History

1 contributor

0 lines (0 sloc) | 0 Bytes   Raw   Blame

4) Fork
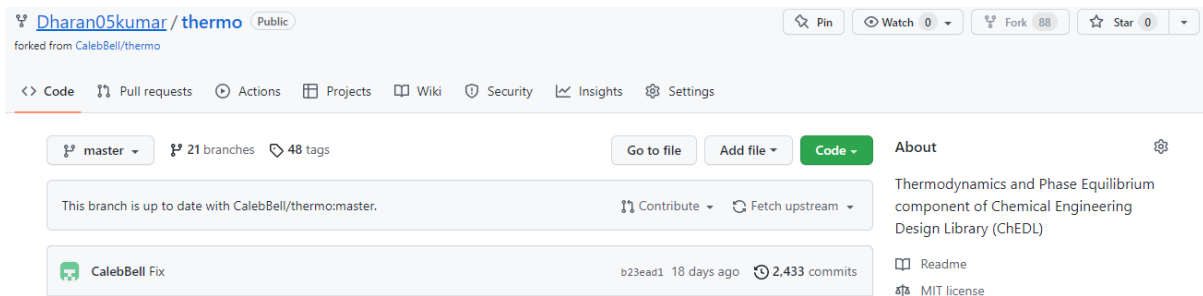
5) Git checkout

```
PS D:\DHARAN\Task1> git checkout
M         123main.txt
```

6) Git checkout –b

```
PS D:\DHARAN\Task1> git checkout
M         123main.txt
PS D:\DHARAN\Task1> git checkout -b example2
Switched to a new branch 'example2'
PS D:\DHARAN\Task1> git branch
  example1
* example2
  main
```

7) Git clone

```
PS D:\DHARAN\Task1> git clone https://github.com/Dharan05kumar/github.git
Cloning into 'github'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.
PS D:\DHARAN\Task1>
```

8) Git fetch

```
PS D:\DHARAN\Task1> git fetch
```

9) Git merge

```
PS D:\DHARAN\Task1> git branch
  example1
* main
PS D:\DHARAN\Task1> git merge
Already up to date.
PS D:\DHARAN\Task1> git merge example1
Already up to date.
PS D:\DHARAN\Task1>
```

10) Git pull

```
PS D:\DHARAN\Task1> git pull origin main
From https://github.com/Dharan05kumar/Example
 * branch            main         -> FETCH_HEAD
Already up to date.
```

11) Git reset

```
PS D:\DHARAN\Task1> git reset main
Unstaged changes after reset:
M       123main.txt
PS D:\DHARAN\Task1> git branch
  example1
* main
PS D:\DHARAN\Task1>
```

Git bash for config command:

```
user@DESKTOP-7F4ISUI MINGW64 ~ (main)
$ 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-proces
s
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/ming
w64/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.usehttp
path=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/user/.gitconfig    user.name=Dharan05kumar
file:C:/Users/user/.gitconfig    user.email=kumardharan05@gmail.com
file:.git/config       core.repositoryformatversion=0
file:.git/config       core.filemode=false
file:.git/config       core.bare=false
file:.git/config       core.logallrefupdates=true
set mark: ...skipping...
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-proces
s
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/ming
w64/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.usehttp
path=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/user/.gitconfig    user.name=Dharan05kumar
file:C:/Users/user/.gitconfig    user.email=kumardharan05@gmail.com
file:.git/config       core.repositoryformatversion=0
file:.git/config       core.filemode=false
file:.git/config       core.bare=false
file:.git/config       core.logallrefupdates=true
```