Cognizance Task-1
(GIT and GITHUB)

Basic Operations

git add:

Puts current working files into the stage.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git add .
```

git checkout -b:

Replaces the current working files with files from a branch.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git checkout -b Prime
Switched to a new branch 'Prime'
```

git checkout:

Creates a new local branch from the current branch's tip.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (Prime)
$ git checkout main
Switched to branch 'main'
```

git clone:

Clone an existing repository into a new directory.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club (master)
$ git clone https://github.com/helloworld-byte/Cognizance.git
Cloning into 'Cognizance'...
warning: You appear to have cloned an empty repository.
```

git commit:

Commits staged changes to a local branch.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git commit -m "Test1.txt file added"
[main (root-commit) bd2777f] Test1.txt file added
 1 file changed, 1 insertion(+)
 create mode 100644 Task-1/test1.txt
```

git commit -a:

Commits all modified files to a local branch (shorthand for "git add" followed by "git commit" for each modified file).

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (Prime)
$ git commit -a -m "Added some more lines"
[Prime e564361] Added some more lines
 1 file changed, 2 insertions(+), 1 deletion(-)
```

git fetch:

Downloads changes from a remote repository into local clone.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (Prime)
$ git fetch https://github.com/helloworld-byte/Cognizance.git
From https://github.com/helloworld-byte/Cognizance
 * branch            HEAD        -> FETCH_HEAD
```

git merge:

Merges files from a given branch into the current branch.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git merge Prime
Updating bd2777f..e564361
Fast-forward
 Task-1/test1.txt | 3 ++-
 1 file changed, 2 insertions(+), 1 deletion(-)
```

git pull:

Fetches remote changes on the current branch into the local clone, and merge then into the current working files.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git pull
Already up to date.
```

git push:

Uploads changes from all local branches to the respective remote repositories.

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git push
Everything up-to-date
```

git reset:

Makes the current branch point to some specific revision or branch.


```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git reset Prime
```
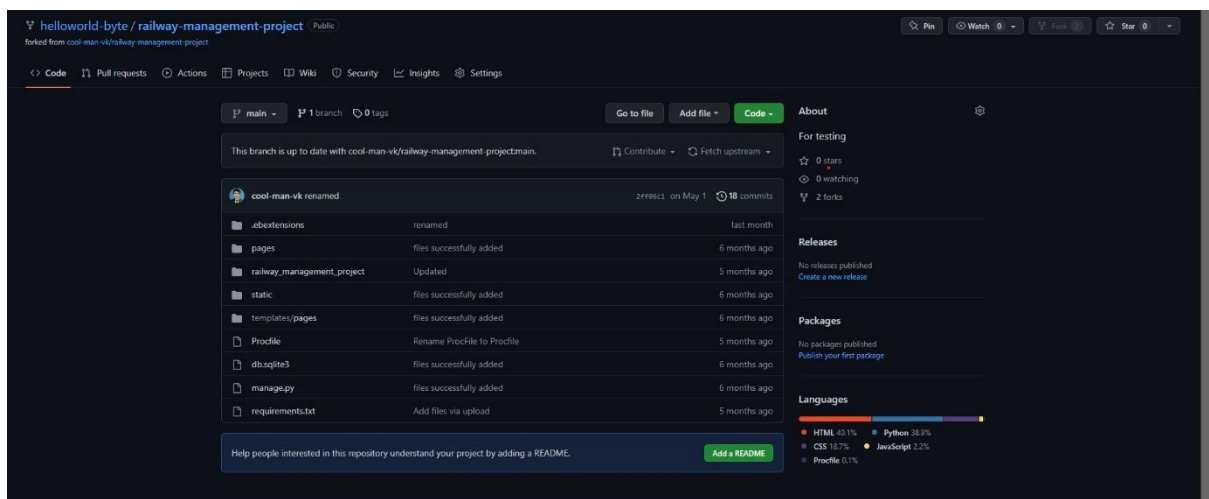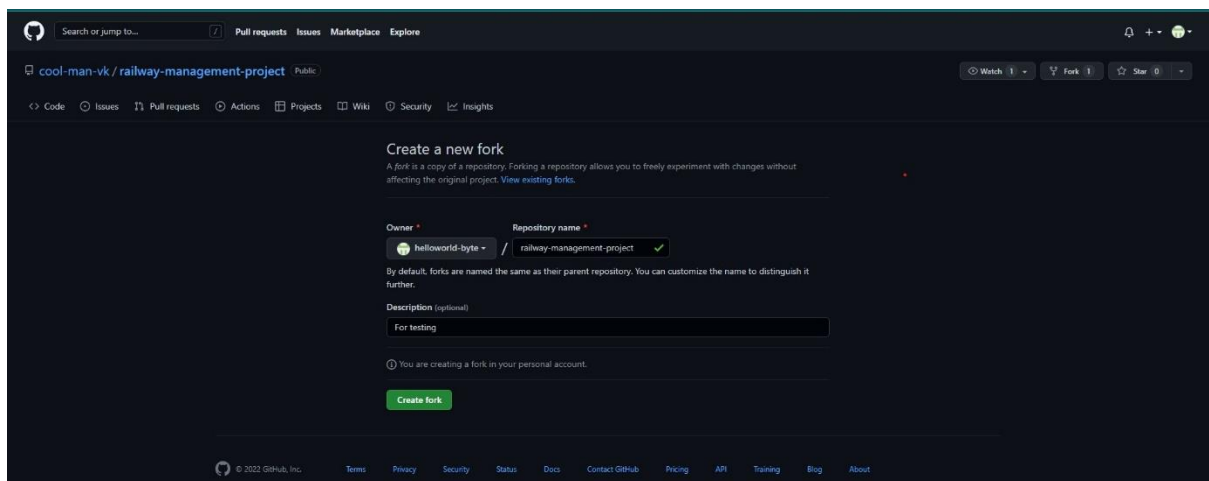
git rebase:

Integrates changes from one branch into another. It is an alternative to the better known "merge" command.


```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (main)
$ git rebase Prime
Current branch main is up to date.
```

git fork:

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

git config:

```
minaa@LAPTOP-35G346J9 MINGW64 ~/Desktop/Cognizance_Club/Cognizance/Task-1 (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-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:C:/Users/minaa/.gitconfig   core.editor="C:\Users\minaa\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait
file:C:/Users/minaa/.gitconfig   user.name=Minaal Kumar
file:C:/Users/minaa/.gitconfig   user.email=minaalk041002@gmail.com
file:C:/Users/minaa/.gitconfig   user.signingkey=rsa3072
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/helloworld-byte/Cognizance.git
file:.git/config         remote.origin.fetch=+refs/heads/*:refs/remotes/origin/*
file:.git/config         branch.main.remote=origin
file:.git/config         branch.main.merge=refs/heads/main
```