

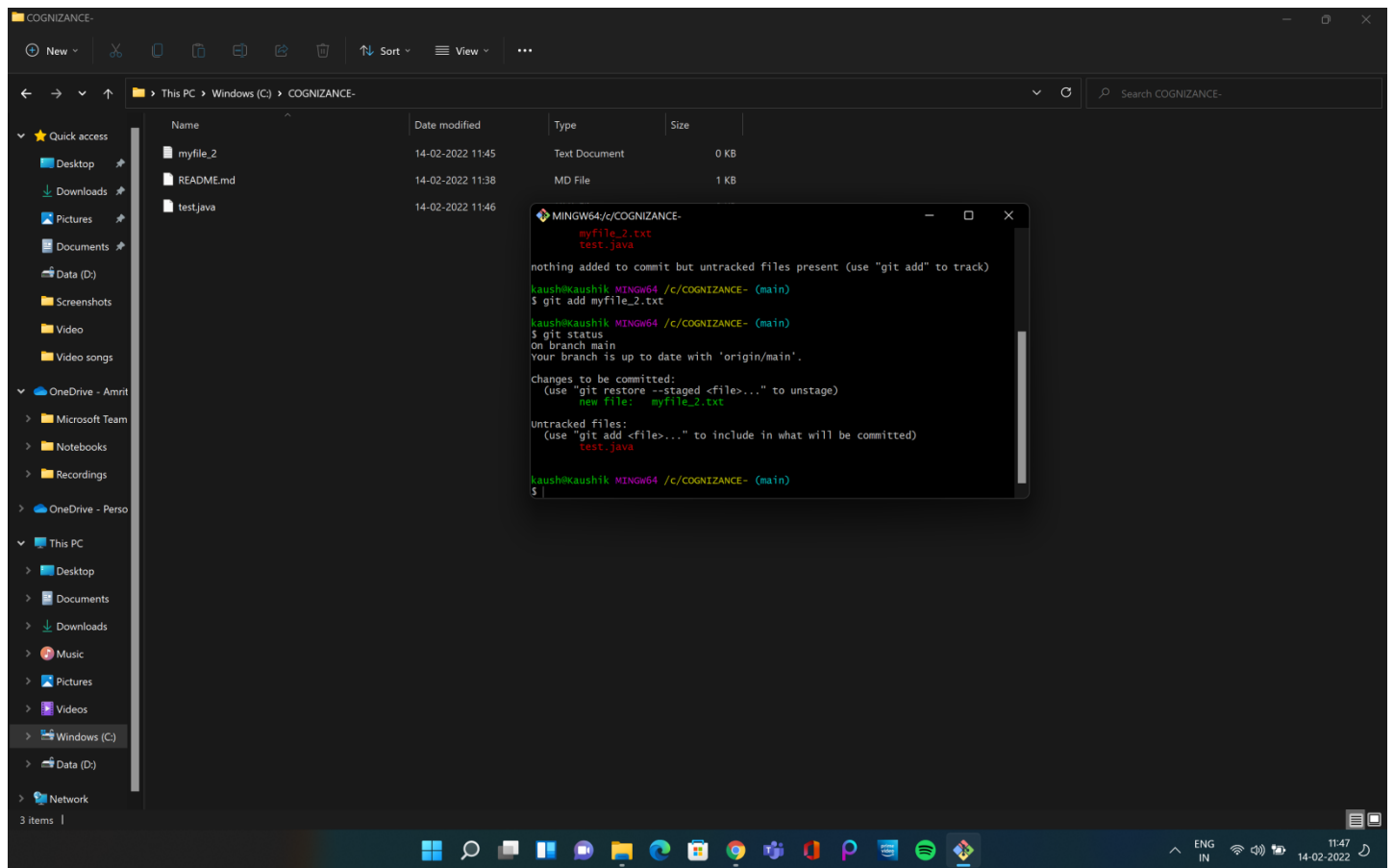
COGNIZANCE

TASK 1 [GIT & GITHUB]

1. Creating a repository

```
MINGW64/c/COGNIZANCE-/cognizance
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ pwd
/c/COGNIZANCE-
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ mkdir COGNIZANCE
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ ls
1.txt 2.txt COGNIZANCE/ COGNIZANCE-/ README.md myfile_3.txt test.java
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ cd cognizance
kaushik@kaushik MINGW64 /c/COGNIZANCE-/cognizance (main)
$ git init
initialized empty git repository in c:/COGNIZANCE-/COGNIZANCE/.git/
kaushik@kaushik MINGW64 /c/COGNIZANCE-/cognizance (master)
$ |
```

2.git add



The screenshot shows a Windows File Explorer window titled "COGNIZANCE-". The address bar indicates the path "This PC > Windows (C:) > COGNIZANCE-". The left sidebar shows the "This PC" section with various locations like Desktop, Documents, Downloads, Music, Pictures, Videos, and Windows (C:). The main pane displays a list of files and folders:

Name	Date modified	Type	Size
myfile_2	14-02-2022 11:45	Text Document	0 KB
README.md	14-02-2022 11:38	MD File	1 KB
test.java	14-02-2022 11:46		

Overlaid on the File Explorer is a terminal window titled "MINGW64/c/COGNIZANCE-". The terminal shows the following commands and output:

```
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git add myfile_2.txt
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   myfile_2.txt

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

kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ |
```

3.git status

The screenshot shows a GitHub repository page for 'kmk61003 / COGNIZANCE-'. The repository is public and has 0 stars, 1 watching, and 0 forks. The commit history shows a sequence of commits: 'Initial commit' (41 minutes ago), 'my next commit' (36 seconds ago), and 'my next commit' (36 seconds ago). The commit 'my next commit' (db5e181) is selected, showing a diff for 'README.md' and 'test.java'. The terminal window shows the following commands and output:

```
kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git add test.java myfile_3.txt
kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git status
On branch main
your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   myfile_2.txt
    new file:   myfile_3.txt
    new file:   test.java

kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git commit -m "my next commit"
[main db5e181] my next commit
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 myfile_2.txt
create mode 100644 myfile_3.txt
create mode 100644 test.java
```

4.git commit

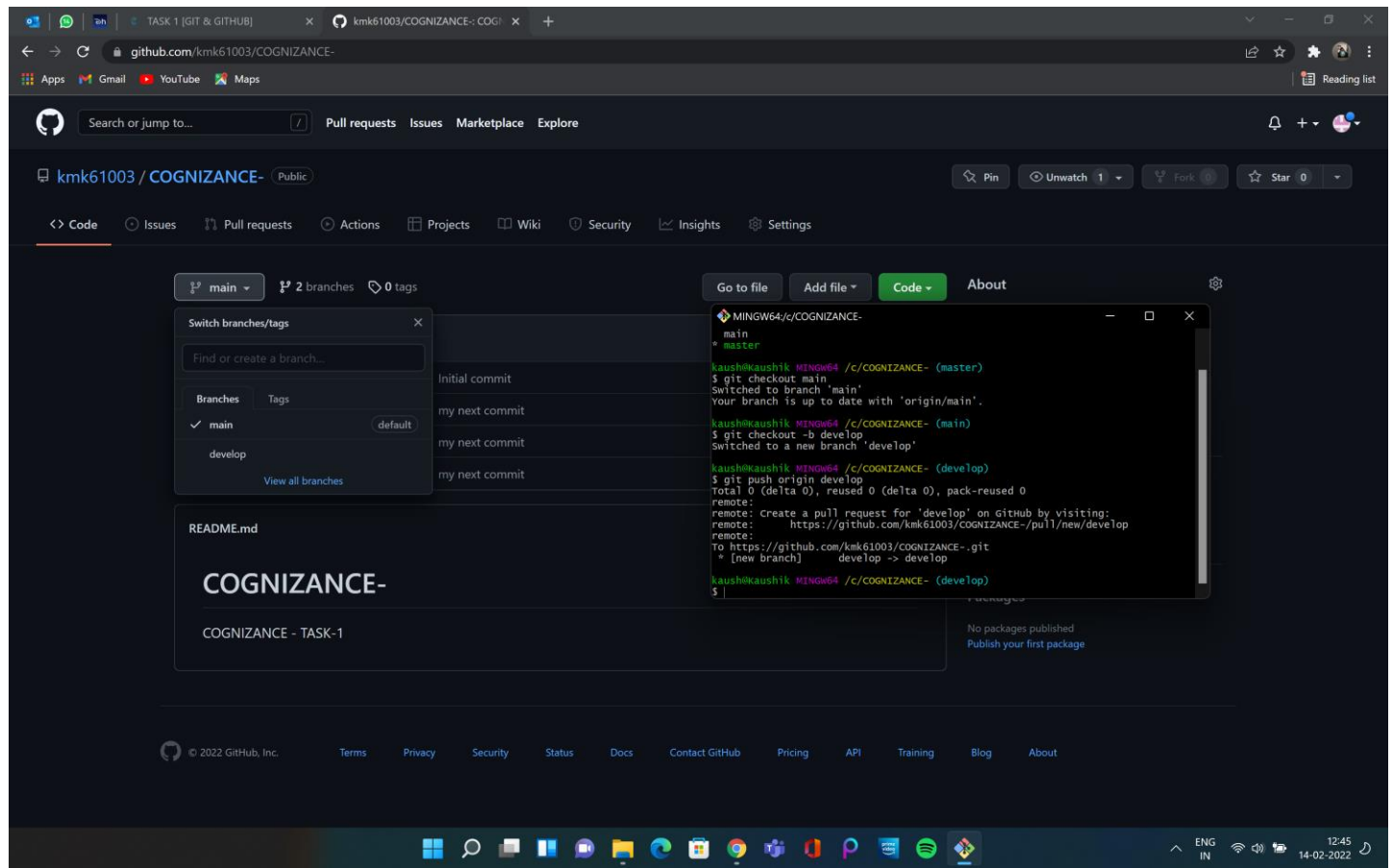
The screenshot shows a GitHub repository page for 'kmk61003 / COGNIZANCE-'. The repository is public and has 0 stars, 1 watching, and 0 forks. The commit history shows a sequence of commits: 'Initial commit' (41 minutes ago), 'my next commit' (36 seconds ago), 'my next commit' (36 seconds ago), and 'my next commit' (36 seconds ago). The commit 'my next commit' (db5e181) is selected, showing a diff for 'README.md' and 'test.java'. The terminal window shows the following commands and output:

```
kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git add test.java myfile_3.txt
kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git status
On branch main
your branch is up to date with 'origin/main'.

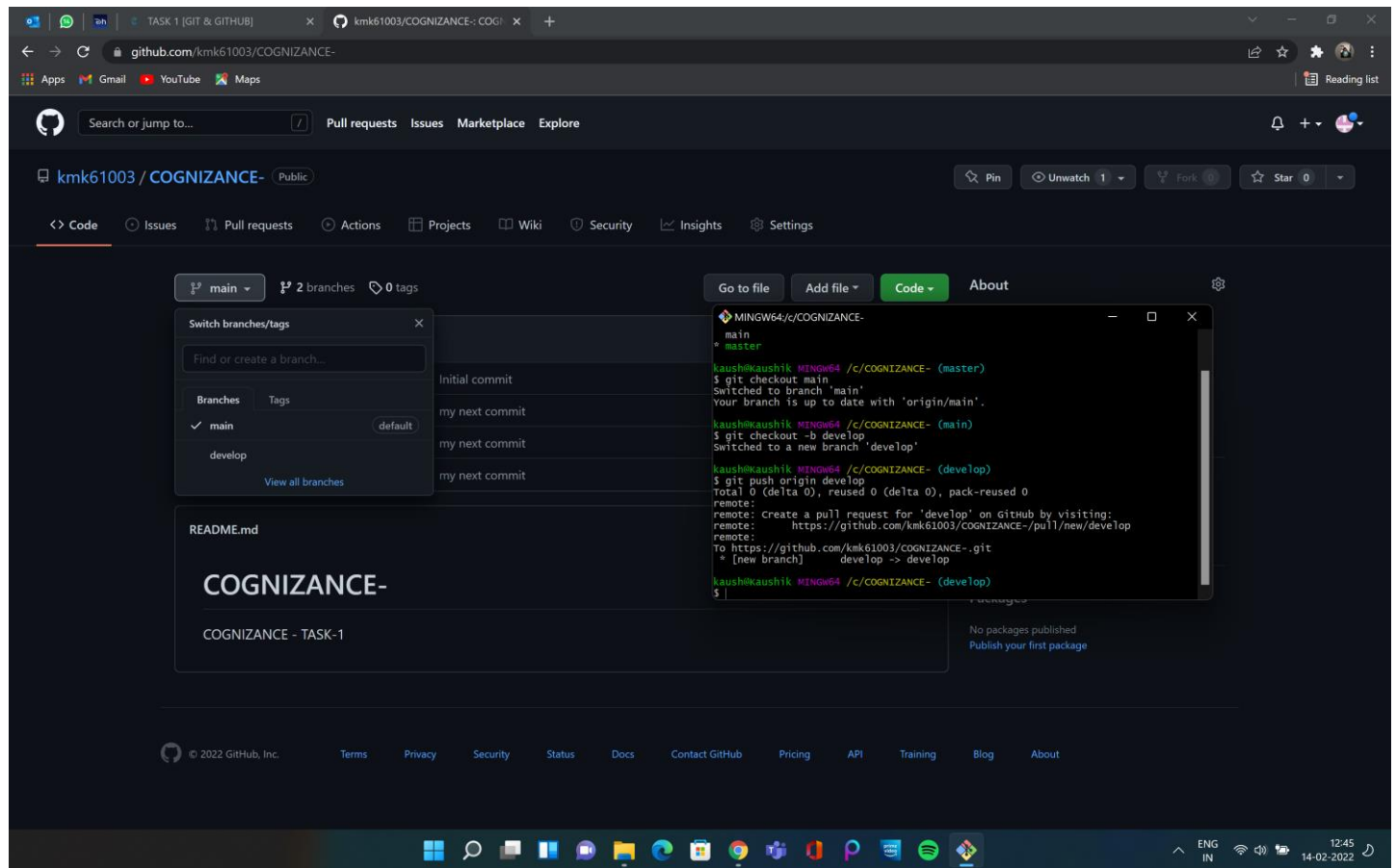
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   myfile_2.txt
    new file:   myfile_3.txt
    new file:   test.java

kaush@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git commit -m "my next commit"
[main db5e181] my next commit
3 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 myfile_2.txt
create mode 100644 myfile_3.txt
create mode 100644 test.java
```

5.git checkout



6.git checkout -b



7.git clone

The screenshot shows the GitHub repository page for 'kmk61003 / COGNIZANCE-'. The repository is public and has 0 stars. The 'main' branch is selected, showing 2 branches and 0 tags. The repository contains files: README.md, myfile_2.txt, myfile_3.txt, and test.java. The README.md file is displayed, showing the title 'COGNIZANCE-' and the subtitle 'COGNIZANCE - TASK-1'. A terminal window is open, showing the output of the 'git clone' command: 'Cloning into 'COGNIZANCE-':... remote: Enumerating objects: 6, done. remote: Counting objects: 100% (6/6), done. remote: Compressing objects: 100% (3/3), done. remote: Total 6 (delta 0), reused 3 (delta 0), pack-reused 0 Receiving objects: 100% (6/6), done.'

8.git commit -a

The screenshot shows the GitHub repository page for 'kmk61003 / COGNIZANCE-'. The repository is public and has 0 stars. The 'develop' branch is selected, showing 2 branches and 0 tags. The repository contains files: README.md, myfile_3.txt, myfile_2.txt, and test.java. The README.md file is displayed, showing the title 'COGNIZANCE-'. A terminal window is open, showing the output of the 'git commit -a' command: 'new file: myfile3.txt [develop a642c96] my first commit from local machine 2 files changed, 1 insertion(+) create mode 100644 myfile3.txt'. The terminal also shows the output of 'git push origin develop' and 'git status'.

9.git push

The screenshot shows a Windows environment with three main components:

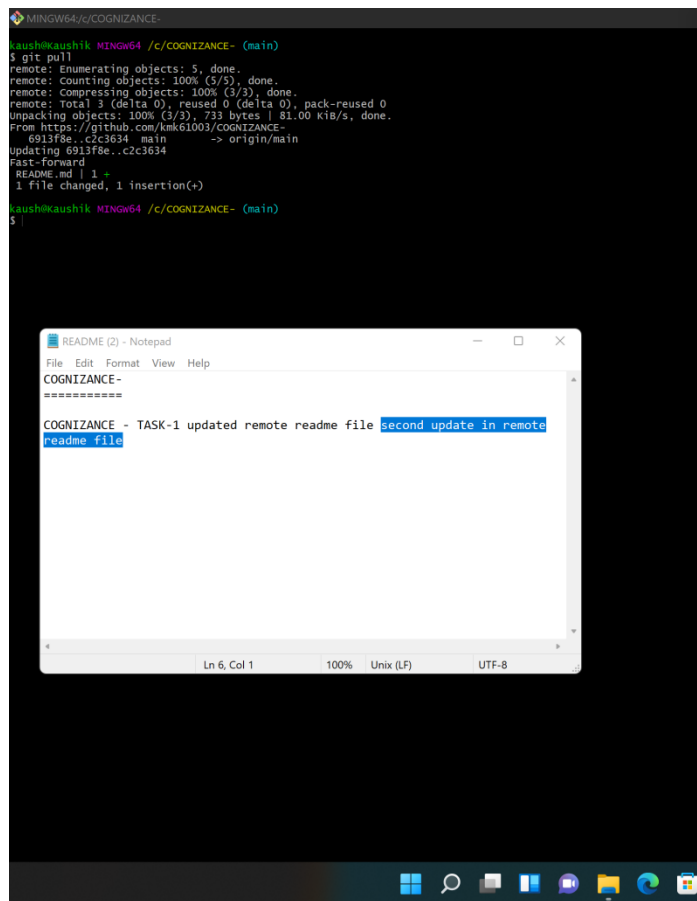
- Terminal (MINGW64/c/COGNIZANCE-):** Displays the execution of git commands. It starts with `git push`, which reports 'Everything up-to-date'. Then `git status` shows the branch is up-to-date. Next, `git add myfile_2.txt` is run, followed by `git commit -m "updated file 2"`, which creates a new commit `e9a2eaf`. Finally, `git push` is executed, pushing the commit to the remote repository. The output shows the commit being pushed to `https://github.com/kmk61003/COGNIZANCE-.git`.
- File Explorer:** Shows the directory structure of the `COGNIZANCE-` folder. It contains files `myfile_2`, `myfile_3`, `README.md`, and `test.java`.
- Web Browser:** Displays the GitHub repository page for `kmk61003 / COGNIZANCE-`. It shows the `main` branch with the file `myfile_2.txt`. The commit history shows the latest commit `e9a2eaf` from `kmk61003` 2 minutes ago, titled 'updated file 2'.

10.git merge

The screenshot shows a Windows environment with three main components:

- Terminal (MINGW64/c/COGNIZANCE-):** Displays the execution of git commands. It starts with `git fetch`, which updates the local `origin/main` branch. Then `git diff --cached README.md` is run, showing the changes in the staged files. Next, `git diff main origin/main` is run, showing the differences between the local `main` branch and the remote `main` branch. Then `git merge` is executed, merging the remote `main` branch into the local `main` branch. The output shows the merge being performed, with the remote `main` branch being updated to `db5e181..6913f8e`.
- File Explorer:** Shows the directory structure of the `COGNIZANCE-` folder. It contains files `myfile_2`, `myfile_3`, `README.md`, and `test.java`.
- Web Browser:** Displays the GitHub repository page for `kmk61003 / COGNIZANCE-`. It shows the `main` branch with the file `README.md`. The commit history shows the latest commit `6913f8e` from `kmk61003` 10 minutes ago, titled 'commit from remote'.

11.git pull



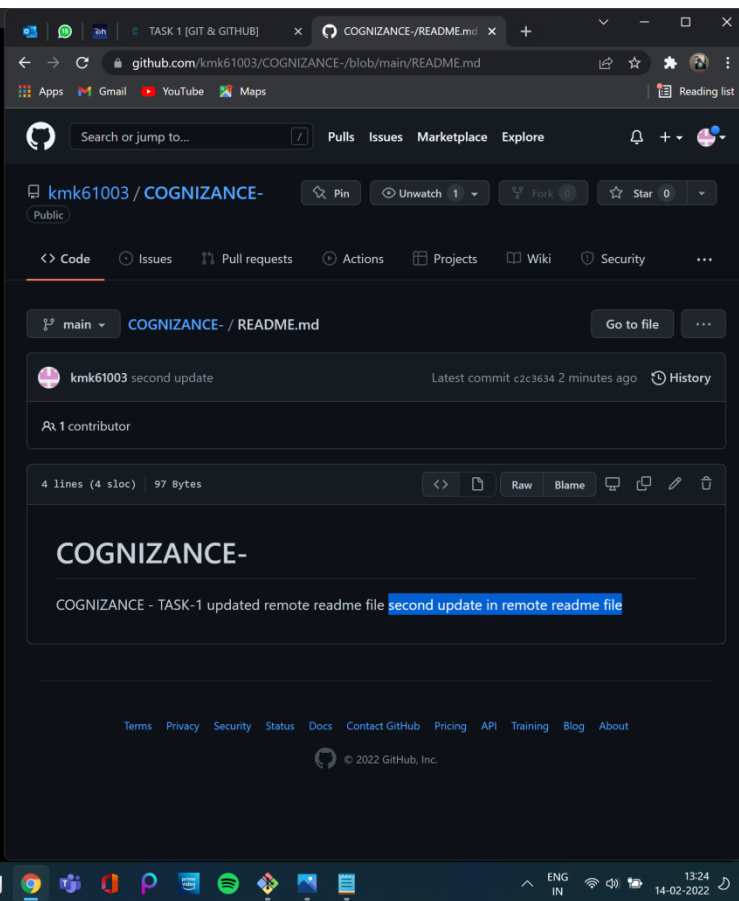
```
MINGW64~/c/COGNIZANCE-
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git pull
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 733 bytes | 81.00 KiB/s, done.
From https://github.com/kmk61003/COGNIZANCE-
  6913f8e..c2c3634  main    -> origin/main
Updating 6913f8e..c2c3634
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$
```

README (2) - Notepad

COGNIZANCE-
=====

COGNIZANCE - TASK-1 updated remote readme file **second update in remote readme file**

Ln 6, Col 1 100% Unix (LF) UTF-8



github.com/kmk61003/COGNIZANCE-/blob/main/README.md

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main COGNIZANCE- / README.md Go to file

kmk61003 second update Latest commit c2c3634 2 minutes ago History

1 contributor

4 lines (4 sloc) 97 Bytes

Raw Blame

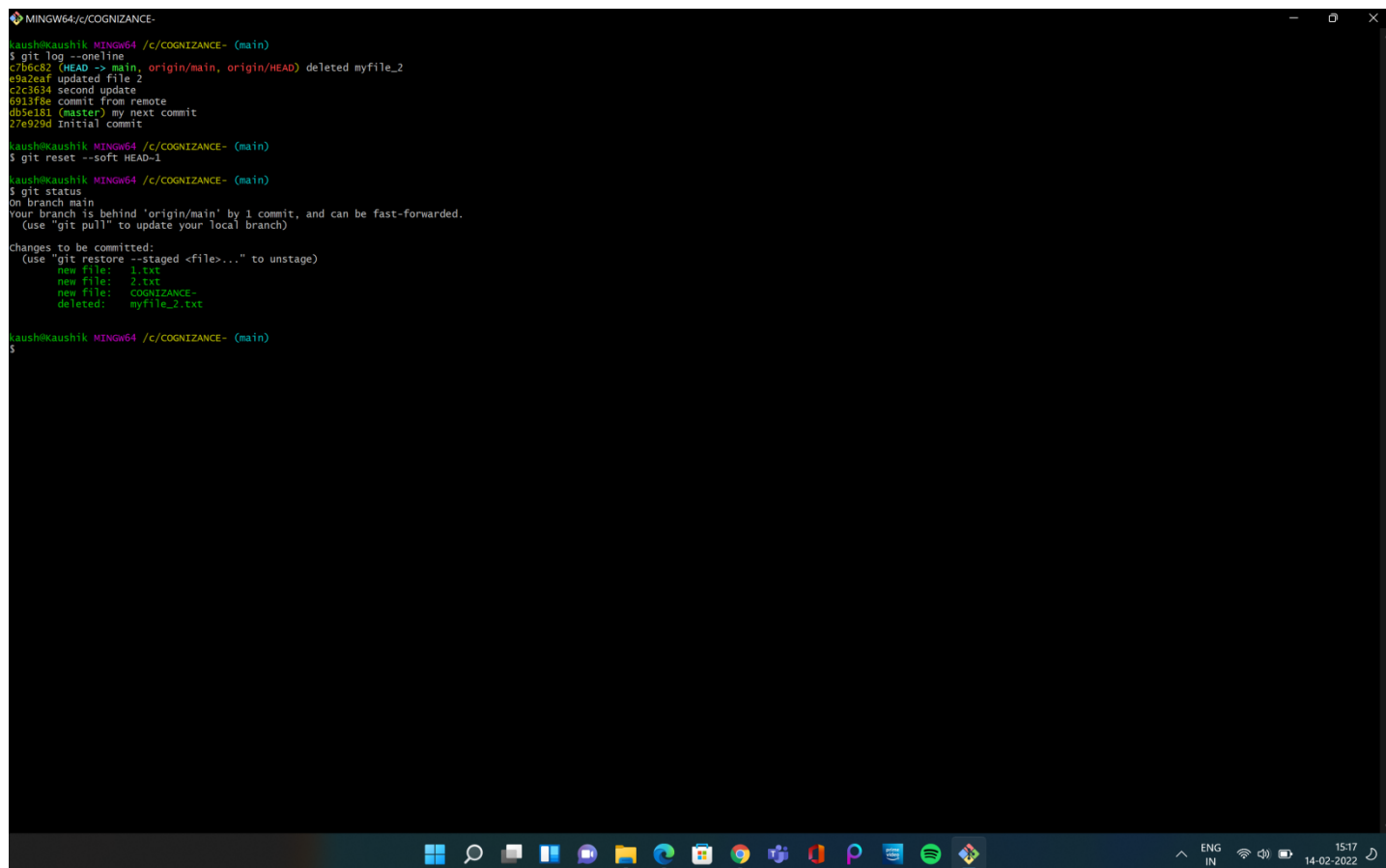
COGNIZANCE-

COGNIZANCE - TASK-1 updated remote readme file **second update in remote readme file**

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12.git reset



```
MINGW64~/c/COGNIZANCE-
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git log --oneline
c706c02 (HEAD -> main, origin/main, origin/HEAD) deleted myfile_2
e9a2eaf updated file 2
c2c3634 second update
6913f8e commit from remote
db5e181 (master) my next commit
27e929d Initial commit

kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git reset --soft HEAD~1

kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$ git status
On branch main
Your branch is behind 'origin/main' by 1 commit, and can be fast-forwarded.
(use 'git pull' to update your local branch)

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
    new file:   1.txt
    new file:   2.txt
    new file:   COGNIZANCE-
    deleted:    myfile_2.txt

kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$
```


13.git rebase

The screenshot shows a terminal window on the left and a web browser on the right. The terminal window displays the following commands and output:

```
kaushh@kaushhik MINGW64 /c/COGNIZANCE- (main)
$ git log --graph
* commit e9a2eaf3f26e379be01c672f5e56007c346baf20 (HEAD -> main, origin/main, origin/HEAD)
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 13:32:13 2022 +0530
    updated file 2
* commit c2c36347eaf9a26f6289b084ae0acd816cc90a9
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 13:22:00 2022 +0530
    second update
* commit 6913f8e5442f87402ac18a4c0ec286dc94d8f1be
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 13:10:00 2022 +0530
    commit from remote
kaushh@kaushhik MINGW64 /c/COGNIZANCE- (main)
$ git fetch
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: compressing objects: 100% (2/2), done.
remote: Total 2 (delta 1), reused 0 (delta 0), pack-reused 0
unpacking objects: 100% (2/2), 599 bytes | 22.00 KiB/s, done.
From https://github.com/kmk61003/COGNIZANCE-
  e9a2eaf..c7b6c82  main    -> origin/main
kaushh@kaushhik MINGW64 /c/COGNIZANCE- (main)
$ git rebase origin/main
Successfully rebased and updated refs/heads/main.
kaushh@kaushhik MINGW64 /c/COGNIZANCE- (main)
$ git log --graph
* commit c7b6c82b07ca10dd2866003c05b0c7b3417 (HEAD -> main, origin/main, origin/HEAD)
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 14:00:25 2022 +0530
    deleted myfile_2
* commit e9a2eaf3f26e379be01c672f5e56007c346baf20
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 13:32:13 2022 +0530
    updated file 2
* commit c2c36347eaf9a26f6289b084ae0acd816cc90a9
  Author: kmk61003 <99633550+kmk61003@users.noreply.github.com>
  Date: Mon Feb 14 13:22:00 2022 +0530
    second update
kaushh@kaushhik MINGW64 /c/COGNIZANCE- (main)
$
```

The web browser shows the GitHub repository page for **kmk61003 / COGNIZANCE-**. The repository is public and has 0 stars, 1 watch, and 0 forks. The repository description is "COGNIZANCE - TASK-1". The repository files are listed as follows:

- main branch: Go to file, Add file, Code
- README.md: second update, 42 minutes ago
- myfile_3.txt: my next commit, 2 hours ago
- test.java: my next commit, 2 hours ago

The repository README.md file content is:

```
COGNIZANCE-

COGNIZANCE - TASK-1 updated remote readme file second
update in remote readme file
```

14.git fork

Here you can see that I fork with my friend aruntej (captain-america).

The screenshot shows a GitHub profile page for **kmk61003**. The profile includes a bio, a profile picture, and a list of repositories. The repositories are:

- Cognizance-1** (Public): Forked from captain-america-77/Cognizance, Updated 1 hour ago.
- COGNIZANCE-** (Public): COGNIZANCE - TASK-1, Updated 3 hours ago.
- desktop-tutorial** (Private): GitHub Desktop tutorial repository, Updated 6 hours ago.

The profile also shows the user's GitHub Desktop tutorial repository and a link to the user's profile.

git config --list --show-

```
MINGW64/c/COGNIZANCE-
kaushik@kaushik MINGW64 /c/COGNIZANCE- (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/kaush/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/kaush/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/kaush/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/kaush/.gitconfig filter.lfs.required=true
file:C:/Users/kaush/.gitconfig user.name=kmk61003
file:C:/Users/kaush/.gitconfig user.email=99633550+kmk61003@users.noreply.github.com
file:C:/Users/kaush/.gitconfig gui.recentrepo=C:/GIT
file:C:/Users/kaush/.gitconfig gui.recentrepo=C:/COGNIZANCE
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/kmk61003/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
kaushik@kaushik MINGW64 /c/COGNIZANCE- (main)
$
```