

GOTTIMUKKULA RAJASHEKAR REDDY

ROLL NO:CH.EN.U4CSE20124

DISCORD HANDLE: **RAJASHEKARREDDY#2168**

## TASK 1 [GIT & GITHUB]

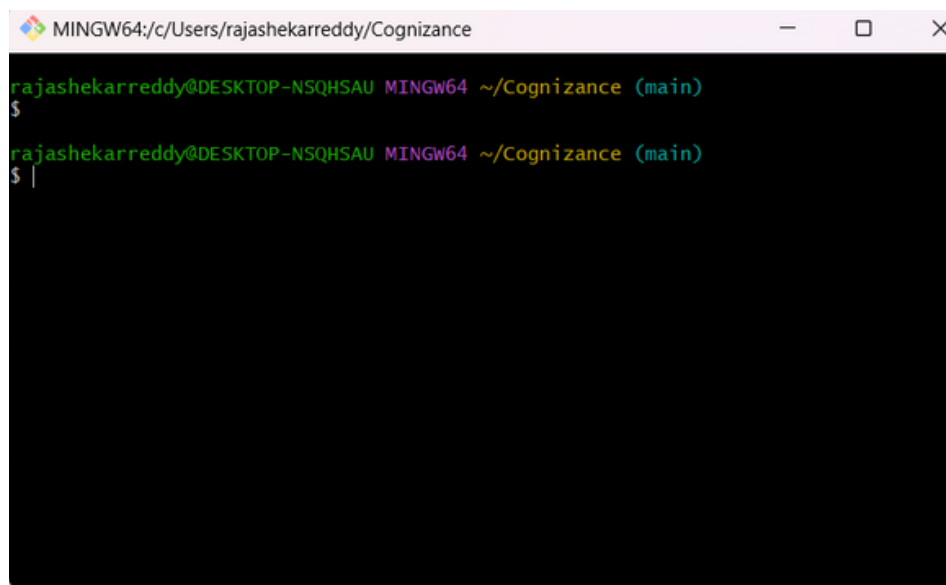
### #CREATING A GITHUB ACCOUNT

I HAVE A GITHUB ACCOUNT ALREADY.

MY GITHUB LINK: [HTTPS://GITHUB.COM/RAJASHEKAR361](https://github.com/RAJASHEKAR361)

### #INSTALL GIT IN YOUR DESKTOP

GITHUB IS ALREADY INSTALLED ON MY COMPUTER.



```
MINGW64:/c:/Users/rajashekarreddy/Cognizance
rajashekarreddy@DESKTOP-NSQHS AU MINGW64 ~/Cognizance (main)
$
rajashekarreddy@DESKTOP-NSQHS AU MINGW64 ~/Cognizance (main)
$ |
```

# 1. Create a repository with name “Cognizance” on GitHub using Git Bash.

## Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner \*



rajashekar361 ▾

Repository name \*

/ Cognizance



Great repository names are short and memorable. Need inspiration? How about [stunning-octo-couscous?](#)

Description (optional)

hello everyone



Public

Anyone on the internet can see this repository. You choose who can commit.



Private

You choose who can see and commit to this repository.

Initialize this repository with:

Skip this step if you're importing an existing repository.



Add a README file

This is where you can write a long description for your project. [Learn more.](#)

Add .gitignore

Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: None ▾

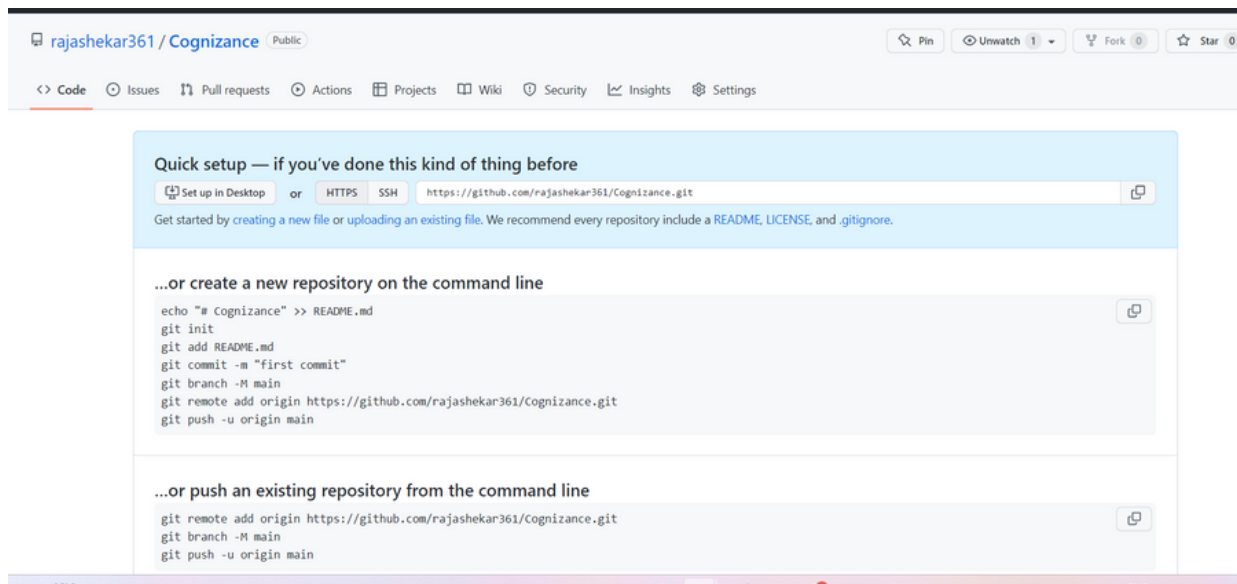
Choose a license

A license tells others what they can and can't do with your code. [Learn more.](#)

License: None ▾

You are creating a public repository in your personal account.

Create repository



```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (master)
$ git init
Reinitialized existing Git repository in C:/Users/rajashekarreddy/Cognizance/.git/

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (master)
$ git add *

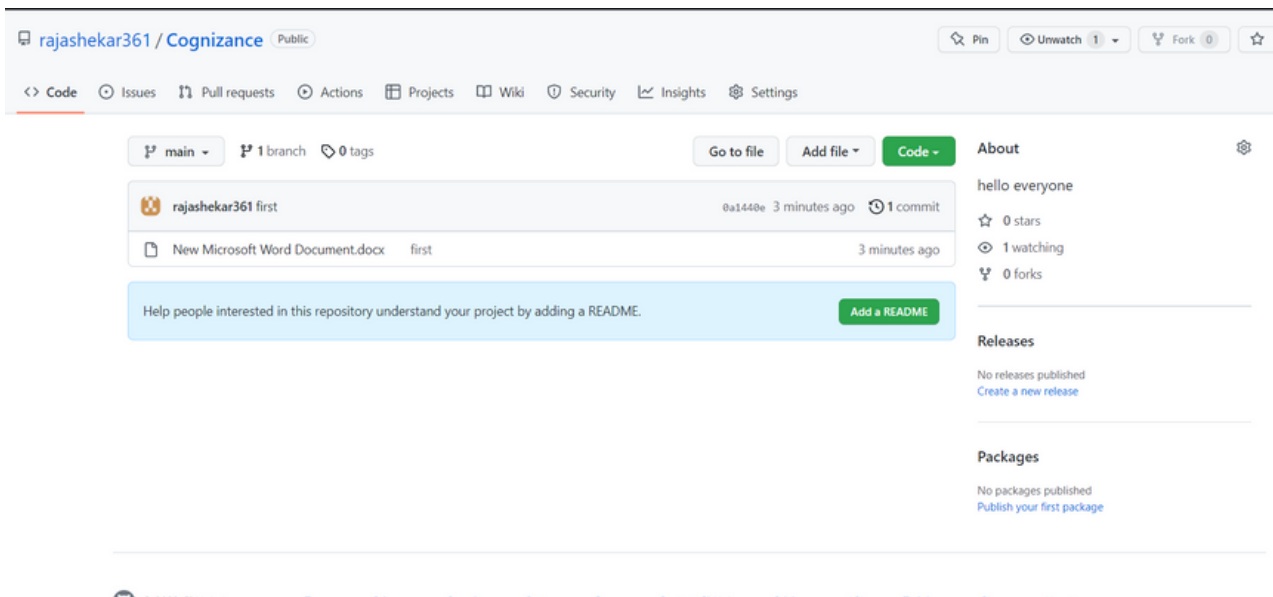
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (master)
$ git commit -m "first"
[master (root-commit) 0a1440e] first
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 New Microsoft Word Document.docx

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (master)
$ git status
On branch master
nothing to commit, working tree clean

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (master)
$ git branch -M main

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git remote add origin https://github.com/rajashekar361/Cognizance.git

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 237 bytes | 237.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rajashekar361/Cognizance.git
* [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```



**2. Create a folder with name “Task-1” in the repository and perform the Git operations using Git Bash.**

```
branch main 2024-10-20 10:10:10  
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)  
$ mkdir task1
```

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
      task1/

nothing added to commit but untracked files present (use "git add" to track)

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git init
Reinitialized existing Git repository in C:/Users/rajashekarreddy/Cognizance/.git/

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git add *

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/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:   task1/New Microsoft Word Document.docx

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git commit -m "first"
[main 6b149f1] first
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 task1/New Microsoft Word Document.docx

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git branch -M main

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 289 bytes | 289.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/rajashekar361/Cognizance.git
   0a1440e..6b149f1  main -> main
branch 'main' set up to track 'origin/main'.
```

### 3. Upload the screenshot of the git bash using This command in your computer.

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/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/rajashekarreddy/.gitconfig user.name=rajashekar361
file:C:/Users/rajashekarreddy/.gitconfig user.email=rajashekargottimukkula@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
file:./git/config core.symlinks=false
file:./git/config core.ignorecase=true
file:./git/config remote.origin.url=https://github.com/rajashekar361/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
```

**Take a screenshot of all the Git operations you performed and compile it in a single PDF and upload it in “Task-1” folder this PDF Should Also Contain the screenshot of the command mentioned in point 3.**

## **GIT ADD:**

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add/rm <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        deleted:    task1/New Microsoft Word Document.docx

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        task1/task 1.pdf

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

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git init
Reinitialized existing Git repository in C:/Users/rajashekarreddy/Cognizance/.git/

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git add *

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git commit -m "second"
[main bfe43a7] second
 2 files changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 task1/New Microsoft Word Document.docx
 create mode 100644 task1/task 1.pdf

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 545.06 KiB | 20.96 MiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/rajashekar361/Cognizance.git
   6b149f1..bfe43a7  main -> main
branch 'main' set up to track 'origin/main'.

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

# GIT CHECKOUT

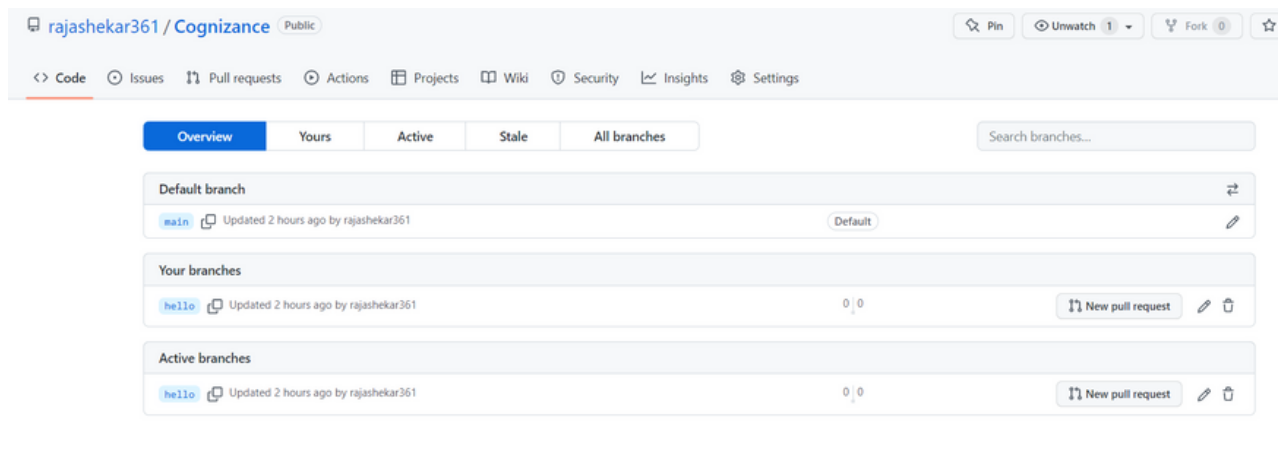
Replaces the current working files with files from a branch.

## GIT CHECKOUT -B

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

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git checkout -b hello
Switched to a new branch 'hello'

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (hello)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```





# GIT PUSH

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git push origin hello
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'hello' on GitHub by visiting:
remote:   https://github.com/rajashekar361/Cognizance/pull/new/hello
remote:
To https://github.com/rajashekar361/Cognizance.git
 * [new branch]      hello -> hello
```

# GIT PULL

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git pull
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), 678.08 KiB | 100.00 KiB/s, done.
From https://github.com/rajashekar361/Cognizance
   88cf5f3..5f1c205  main       -> origin/main
Updating 88cf5f3..5f1c205
Fast-forward
 task1/task 1.pdf => task1.pdf | Bin 574576 -> 720306 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
 rename task1/task 1.pdf => task1.pdf (79%)
```

# GIT COMMIT

```
# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# On branch main
# Your branch is up to date with 'origin/main'.
#
# Changes to be committed:
#   deleted:    task.pdf
#
~
~
~
~
~
```

# GIT COMMIT -A

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git commit -a
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

# GIT FETCH:

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git fetch
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (1/1), done.
remote: Total 2 (delta 0), reused 1 (delta 0), pack-reused 0
Unpacking objects: 100% (2/2), 619 bytes | 61.00 KiB/s, done.
From https://github.com/rajashekar361/Cognizance
   59f048d..ca52c44  main       -> origin/main

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git pull
Updating 59f048d..ca52c44
Fast-forward
 hello.txt | 2 --
 1 file changed, 2 deletions(-)
 delete mode 100644 hello.txt
```

# GIT MERGE

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git merge hello main
Already up to date.
```

# GIT CLONE

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git clone https://github.com/rajashekar361/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 30, done.
remote: Counting objects: 100% (30/30), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 30 (delta 3), reused 15 (delta 1), pack-reused 0
Receiving objects: 100% (30/30), 771.54 KiB | 468.00 KiB/s, done.
Resolving deltas: 100% (3/3), done.

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
```

# GIT RESET

```
rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git add file.txt

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git commit -m "added"
[main 9aad4bc] added
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file.txt

rajashekarreddy@DESKTOP-NSQHSAU MINGW64 ~/Cognizance (main)
$ git reset
Unstaged changes after reset:
D      Cognizance
```

# GIT REBASE

```
rajashekarreddy@DESKTOP-NSQHS AU MINGW64 ~/Cognizance (main)
$ git checkout -b new_BRANCH
Switched to a new branch 'new_BRANCH'

rajashekarreddy@DESKTOP-NSQHS AU MINGW64 ~/Cognizance (new_BRANCH)
$ git checkout new_BRANCH
Already on 'new_BRANCH'
D      Cognizance

rajashekarreddy@DESKTOP-NSQHS AU MINGW64 ~/Cognizance (new_BRANCH)
$ git rebase main
Current branch new_BRANCH 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

**Steps for forking the repository are as follows:**

- Login to the GitHub account.
- Find the GitHub repository which you want to fork.
- Click the Fork button on the upper right side of the repository's page.

