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CH.EN.U4CSE20030

DISCORD HANDLE: **Abhij18#2629**

TASK – 1 [GIT & GITHUB]

CREATING A GITHUB ACCOUNT

>>> I have already created a GITHUB account.

<https://github.com/AbhiramJogimahanthi>

INSTALL GIT IN YOUR DESKTOP

>>> GIT is already installed on my PC.

```
abhij@ARJ-PC18 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 *

Repository name *

 AbhiramJogimahanthi ▾


 /

Cognizance ✓


Great repository names are short and memorable. Need inspiration? How about [special-guide?](#)

Description (optional)

Cognizance prelims task - 1

☒  **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.](#)

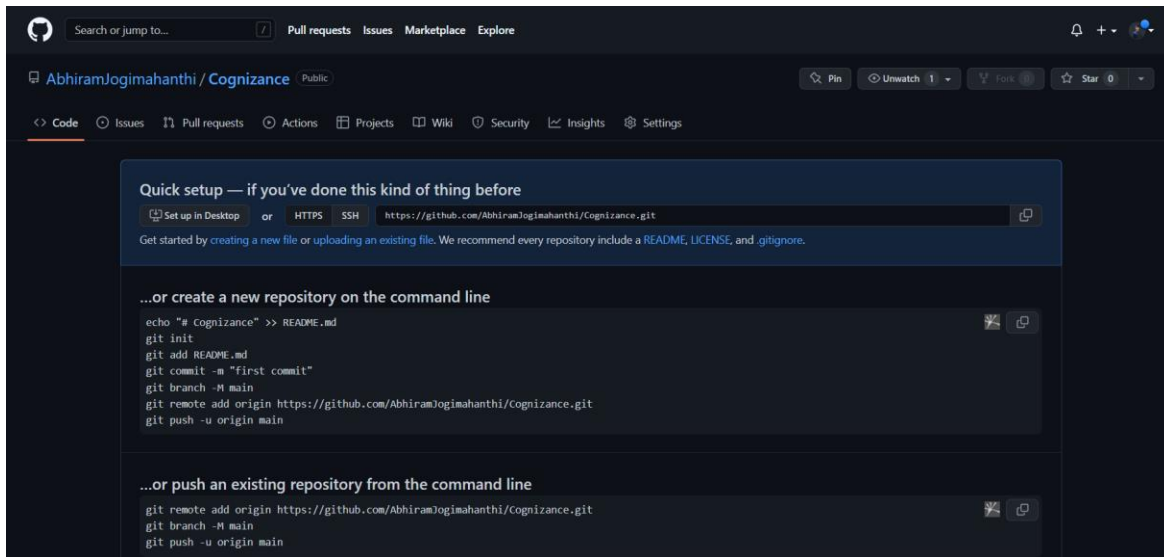
Choose a license

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



```
abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git init
Reinitialized existing Git repository in C:/Users/abhi/Cognizance/.git/

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git add *
hint: core.useBuiltinFSMonitor=true is deprecated; please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ ^C

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git add *
hint: core.useBuiltinFSMonitor=true is deprecated; please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git status
hint: core.useBuiltinFSMonitor=true is deprecated; please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   New Microsoft Word Document.docx

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git commit -m "fc"
hint: core.useBuiltinFSMonitor=true is deprecated; please set core.fsmonitor=true instead
hint: Disable this message with "git config advice.useCoreFSMonitorConfig false"
[master (root-commit) e948701] fc
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 New Microsoft Word Document.docx

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git branch -M main
^C

abhi@ARJ-PC18 MINGW64 ~/Cognizance (master)
$ git branch -M main
```

```
abhij@ARJ-PC18 MINGW64 ~/Cognizance (main)
$ git remote add origin https://github.com/AbhiramJogimahanthi/Cognizance.git

abhij@ARJ-PC18 MINGW64 ~/Cognizance (main)
$ git push -u origin main
info: please complete authentication in your browser...
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), 236 bytes | 236.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhiramJogimahanthi/Cognizance.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

The screenshot shows the GitHub interface for the repository 'AbhiramJogimahanthi / Cognizance'. The repository is public. The main branch is selected, showing 1 branch and 0 tags. The commit history is displayed, showing the latest commit 'AbhiramJogimahanthi Update Demo.txt' at e833945, made 34 minutes ago, with 3 commits in total. The commit details show a file 'Demo.txt' updated 34 minutes ago, and two Microsoft Word documents, 'New Microsoft Word Document.docx' and '~\$w Microsoft Word Document.docx', both changed 36 minutes ago. A button 'Add a README' is visible at the bottom.

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AbhiramJogimahanthi / Cognizance (Public)

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main 1 branch 0 tags Go to file Add file Code

AbhiramJogimahanthi Update Demo.txt e833945 34 minutes ago 3 commits

| | | |
|-----------------------------------|-----------------|----------------|
| Demo.txt | Update Demo.txt | 34 minutes ago |
| New Microsoft Word Document.docx | fc | 1 hour ago |
| ~\$w Microsoft Word Document.docx | change | 36 minutes ago |

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

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

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ mkdir task1

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ cd task1

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance/task1 (main)
$ touch demo.txt

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance/task1 (main)
$ cd .

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance/task1 (main)
$ cd ..

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git init
Initialized empty Git repository in C:/Users/abhi/OneDrive/Desktop/Cognizance/.git/

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git add *

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   task1/demo.txt

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git commit -m "first commit"
[master (root-commit) e0b2398] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 task1/demo.txt

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git branch -M main

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git remote add origin https://github.com/AbhiramJogimahanthi/Cognizance.git

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Writing objects: 100% (4/4), 273 bytes | 273.00 KiB/s, done.
Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/AbhiramJogimahanthi/Cognizance.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git pull
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 688 bytes | 20.00 KiB/s, done.
From https://github.com/AbhiramJogimahanthi/Cognizance
   e0b2398..8b02029  main       -> origin/main
Updating e0b2398..8b02029
Fast-forward
 task1/demo.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

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

```
git config --list --show-origin
```

```
abhi@ARJ-PC18 MINGW64 ~/Cognizance (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 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 core.usebuiltinfsmonitor=true
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/abhi/.gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/abhi/.gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/abhi/.gitconfig filter.lfs.process=git-lfs filter-process
file:C:/Users/abhi/.gitconfig filter.lfs.required=true
file:C:/Users/abhi/.gitconfig user.name=Abhiram Jogimahanthi
file:C:/Users/abhi/.gitconfig user.email=abhi.jogimahanthi18@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
```

4. 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:

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git add *

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (master)
$ git status
On branch master

No commits yet


Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   task1/demo.txt
```

GIT CHECKOUT: Replaces the current working files with files from a branch.

GIT CHECKOUT-B: Creates new local branch from the current branch's tip.




```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git checkout -b abhi
Switched to a new branch 'abhi'

abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (abhi)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

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Search branches...

Default branch

main

Updated 1 hour ago by Abhiram Jogimahanthi

Default

Your branches

abhi

Updated 1 hour ago by Abhiram Jogimahanthi

0 0

New pull request

Active branches

abhi

Updated 1 hour ago by Abhiram Jogimahanthi

0 0

New pull request

GIT PUSH:

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git push origin abhi
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'abhi' on GitHub by visiting:
remote:   https://github.com/AbhiramJogimahanthi/Cognizance/pull/new/abhi
remote:
To https://github.com/AbhiramJogimahanthi/Cognizance.git
 * [new branch]      abhi -> abhi
```

GIT PULL:

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git pull
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (4/4), 688 bytes | 20.00 KiB/s, done.
From https://github.com/AbhiramJogimahanthi/Cognizance
   e0b2398..8b02029  main       -> origin/main
Updating e0b2398..8b02029
Fast-forward
 task1/demo.txt | 2 +-
 1 file changed, 1 insertion(+), 1 deletion(-)
```

GIT COMMIT:

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git commit
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean
```

GIT COMMIT -A:

```
abhi@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/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:

```
abhij@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git fetch
```

GIT MERGE:

```
abhij@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git merge abhi main
Already up to date.
```

GIT CLONE:

```
abhij@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git clone https://github.com/AbhiramJogimahanthi/Cognizance.git
Cloning into 'Cognizance'...
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 8 (delta 0), reused 4 (delta 0), pack-reused 0
Receiving objects: 100% (8/8), done.
```

GIT RESET:

```
abhij@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git reset
```

GIT REBASE:

```
abhij@ARJ-PC18 MINGW64 ~/OneDrive/Desktop/Cognizance (main)
$ git rebase main
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.

