RAAGAVEDA E

CH.EN.U4CSE20119, 2ND YR CSE B

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TASK 1 [GIT & GITHUB]

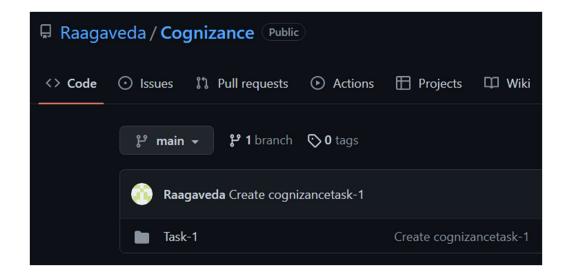
#Creating a GitHub account

My GitHub link: https://github.com/Raagaveda

#Install Git in your desktop

GitHub is already installed on my computer.

- 1. Create a repository with name "Cognizance" on GitHub using Git Bash.
- 2. Create a folder with name "Task-1" in the repository and perform the Git operations using Git Bash.



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

git config --list --show-origin

```
raaga@Raagaveda MINGw64 /d/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 filter.lfs.required=true file:C:/Program Files/Git/etc/gitconfig tore.sslcainfo=C:/Program Files/Git/etc/gitconfig core.autocrlf=true file:C:/Program Files/Git/etc/gitconfig core.sscache=true file:C:/Program Files/Git/etc/gitconfig core.symlinks=false file:C:/Program Files/Git/etc/gitconfig ore.symlinks=false file:C:/Program Files/Git/etc/gitconfig redential.htlps://dev.azure.com.usehttppath=true file:C:/Program Files/Git/etc/gitconfig credential.htlps://dev.azure.com.usehttppath=true file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master file:C:/Users/raaga/.gitconfig user.email=raagaveda9@gmail.com file:C:/Users/raaga/.gitconfig user.email=RaAGAVEDA file:.git/config core.spmlinks=false file:.git/config core.bare=false file:.git/config core.bare=false file:.git/config core.spmlinks=false core.symlinks=false core.symlinks=false core.symlinks=false core.ignorecase=true raaga@RaagaVeda MINGW64 /d/Cognizance (master) $
```

#Git Operations

git add

Puts current working files into the stage.

git checkout

Replaces the current working files with files from a branch.

```
raaga@RaagaVeda MINGW64 /d/Cognizance (master)
$ git branch raagi

raaga@RaagaVeda MINGW64 /d/Cognizance (master)
$ git checkout raagi
Switched to branch 'raagi'

raaga@RaagaVeda MINGW64 /d/Cognizance (raagi)
$ git checkout master
Switched to branch 'master'
```

git checkout -b

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

```
raaga@RaagaVeda MINGW64 /d/Cognizance (master)
$ git checkout -b r_branch
Switched to a new branch 'r_branch'
```

git clone

Clone an existing repository into a new directory.

```
raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ git clone https://github.com/Raagaveda/cogcopy.git
Cloning into 'cogcopy'...
warning: You appear to have cloned an empty repository.
```

git commit

Commits staged changes to a local branch.

```
raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ touch f1.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ git add f1.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ git commit -m "added f1 file "
[r_branch 79facaa] added f1 file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ [
```

git commit -a

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

```
raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (rv_branch)

$ git commit -a
On branch rv_branch
nothing to commit, working tree clean

raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (rv_branch)

$ |
```

git fetch

Downloads changes from a remote repository into the local clone.

```
raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)

$ git fetch https://github.com/Raagaveda/Cognizance.git
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 580 bytes | 1024 bytes/s, done.
From https://github.com/Raagaveda/Cognizance
* branch HEAD -> FETCH_HEAD

raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
```

git merge

Merges files from a given branch into the current branch.

Merge with commit id:

Merging the branches:

```
raaga@RaagaVeda MINGW64 /d/Cognizance (r_branch)
$ git checkout master
Switched to branch 'master'

raaga@RaagaVeda MINGW64 /d/Cognizance (master)
$ git merge r_branch
Updating e266612..79facaa
Fast-forward
f1.txt | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f1.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (master)
$ |
```

git pull

Fetches remote changes on the current branch into the local clone, and merges them into the current working files.

```
raaga@RaagaVeda MINGW64 /d/Cognizance (master)

$ git pull https://github.com/Raagaveda/Cognizance.git
remote: Enumerating objects: 8, done.
remote: Counting objects: 100% (8/8), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 8 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (8/8), 1.75 KiB | 10.00 KiB/s, done.
From https://github.com/Raagaveda/Cognizance
* branch HEAD -> FETCH_HEAD
fatal: refusing to merge unrelated histories

raaga@RaagaVeda MINGW64 /d/Cognizance (master)

$ |
```

git push

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

```
raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (master)

§ git push origin master

Enumerating objects: 3, done.

Counting objects: 100% (3/3), done.

Writing objects: 100% (3/3), 224 bytes | 224.00 KiB/s, done.

Total 3 (delta 0), reused 0 (delta 0), pack-reused 0

remote:
remote: Create a pull request for 'master' on GitHub by visiting:
remote: https://github.com/Raagaveda/Cognizance/pull/new/master
remote:
To https://github.com/Raagaveda/Cognizance.git

* [new branch] master -> master
```

git reset

Makes the current branch point to some specific revision or branch

```
raaga@RaagaVeda MINGW64 /d/Cognizance (master)

$ git add f2.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (master)

$ git commit -m "adding f2 file"
[master 64718c0] adding f2 file

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 f2.txt

raaga@RaagaVeda MINGW64 /d/Cognizance (master)

$ git reset

raaga@RaagaVeda MINGW64 /d/Cognizance (master)
```

git rebase

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

```
raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (master)

$ git checkout rv_branch
Switched to branch 'rv_branch'

raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (rv_branch)

$ git rebase master
Current branch rv_branch is up to date.

raaga@RaagaVeda MINGW64 /d/Cognizance/task1 (rv_branch)

$ |
```

git fork

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

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

