



NAME: VOMMIDAPU CHINNI

BATCH NO: 120

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DATE: 11/04/24

Module: GIT

TRAINER: Mr. Madhukar

ASSIGNMENT - 1

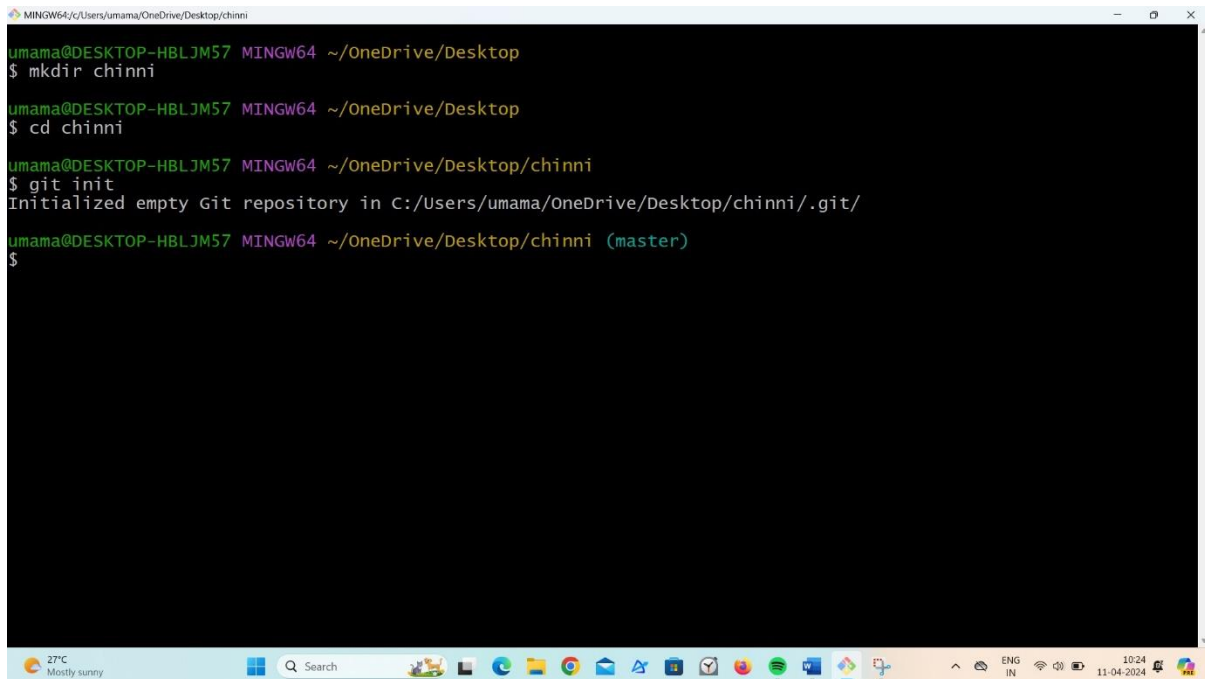
CASE STUDY

1) Create two branches and merge them, create directory and push in the repository, commit the changes to the file and use cherry pick to commit changes between branches?

- Open the git bash here then create a directory in desktop using command mkdir.
- Change to the directory which was created by us, using the command cd <director name>

```
MINGW64/c:/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop
$ mkdir chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop
$ cd chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni
$
```

- Initialize the created directory command is “git init” (convert the normal directory to git repository).
- Default branch is “master”.



```

MINGW64~/c:/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop
$ mkdir chinni

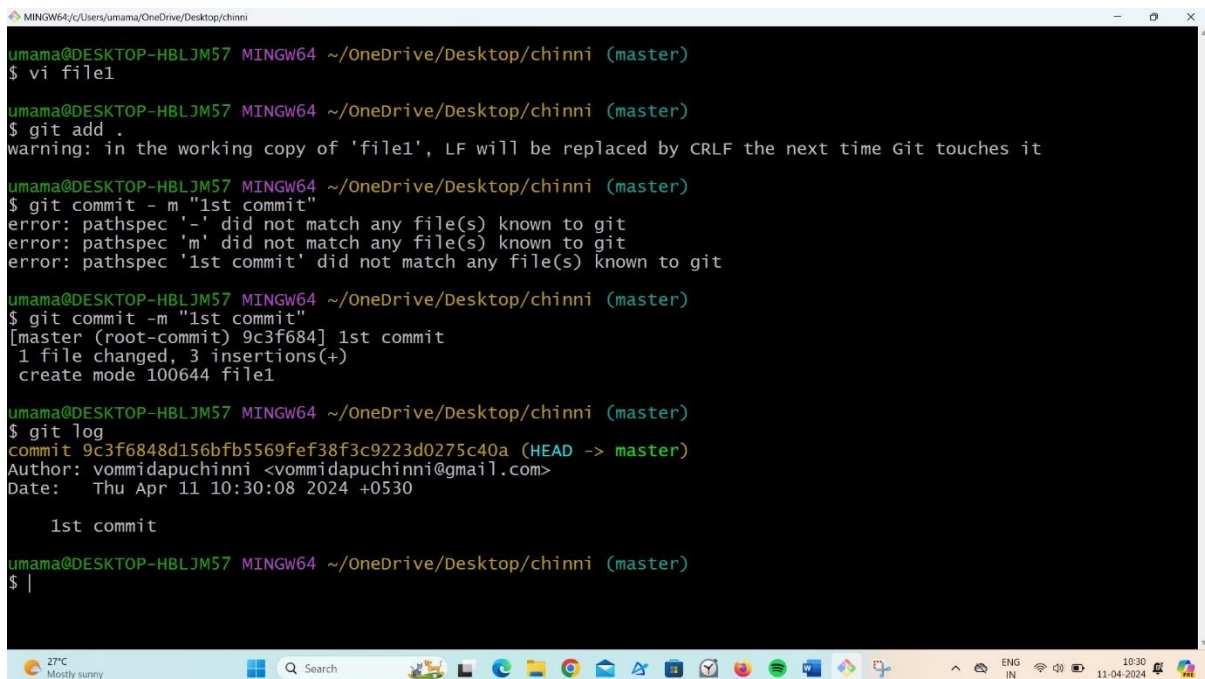
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop
$ cd chinni

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni
$ git init
Initialized empty Git repository in C:/Users/umama/OneDrive/Desktop/chinni/.git/

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$

```

- Now create a file in master branch with using command vi file1.
- git add . is used to move the file from working directory to staging area.
- git commit is used to move file from staging area to local repository.
- git log is used to see show the how many commits we did.



```

MINGW64~/c:/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ vi file1

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git add .
warning: in the working copy of 'file1', LF will be replaced by CRLF the next time Git touches it

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git commit -m "1st commit"
error: pathspec '-' did not match any file(s) known to git
error: pathspec 'm' did not match any file(s) known to git
error: pathspec '1st commit' did not match any file(s) known to git

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git commit -m "1st commit"
[master (root-commit) 9c3f684] 1st commit
1 file changed, 3 insertions(+)
create mode 100644 file1

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git log
commit 9c3f684d156bfb5569fef38f3c9223d0275c40a (HEAD -> master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ |

```

- Create a new branch using the command `git branch dev`.
- `git checkout <branch name>` is move from one branch to another branch.
- File created in workspace will be visible in any of the branch until you commit, once you commit, then that file belongs to that particular branch.
- Create file in dev branch using command `vi file2`.
- To see the content in file `cat <filename>`. Create another file in dev branch

```

MINGW64~/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git branch dev

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git checkout dev
Switched to branch 'dev'

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ ls
file1

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ vi file2

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ cat file2
aaaaaaaaaaaaaaaa
bbbbbbbbbbbbbbbb
cccccccccccccccc

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ vi file3

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ cat file3
1111111111
2222222222
3333333333

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ |

```

- `git add filename` is used to move the file from working directory to staging area.
- `git commit` is used to move file from staging area to local repository.
- `git log` is used to see show the how many commits we did. We see here 2 commits.
- Same do for file3 also.
- Git log we see here 3 commits.

```
MINGW64/c/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git add file2
warning: in the working copy of 'file2', LF will be replaced by CRLF the next time Git touches it

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git log
commit 9c3f6848d156bf5569fef38f3c9223d0275c40a (HEAD -> dev, master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git commit -m "2nd commit"
[dev b35428d] 2nd commit
    1 file changed, 3 insertions(+)
    create mode 100644 file2

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git log
commit b35428d93fb5e289d5c66ce7d5075fcbef498b1f (HEAD -> dev)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:34:26 2024 +0530

    2nd commit

commit 9c3f6848d156bf5569fef38f3c9223d0275c40a (master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit
```

```
MINGW64/c/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git add file3
warning: in the working copy of 'file3', LF will be replaced by CRLF the next time Git touches it

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git commit -m "3rd commit"
[dev c56485a] 3rd commit
    1 file changed, 3 insertions(+)
    create mode 100644 file3

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git log
commit c56485a0d4d6145854de640e92b9afa59a320925 (HEAD -> dev)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:35:56 2024 +0530

    3rd commit

commit b35428d93fb5e289d5c66ce7d5075fcbef498b1f
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:34:26 2024 +0530

    2nd commit

commit 9c3f6848d156bf5569fef38f3c9223d0275c40a (master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$
```

- To move from one branch we use the command as `git checkout <branch name>`.
- cherry-pick command is used for coping the particular file from one branch to another branch and the command is `git cherry-pick <copy and paste the commit id of particular file>`
- We see the file in the master branch.

```
MINGW64~/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git checkout master
Switched to branch 'master'

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git checkout dev
Switched to branch 'dev'

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git log
commit c56485a0d4d6145854de640e92b9afa59a320925 (HEAD -> dev)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:35:56 2024 +0530

    3rd commit

commit b35428d93fb5e289d5c66ce7d5075fcbef498b1f
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:34:26 2024 +0530

    2nd commit

commit 9c3f6848d156bfb5569fef38f3c9223d0275c40a (master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$
```

```
MINGW64~/Users/umama/OneDrive/Desktop/chinni
umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (dev)
$ git checkout master
Switched to branch 'master'

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git cherry-pick c56485a0d4d61
[master d30fcba] 3rd commit
Date: Thu Apr 11 10:35:56 2024 +0530
    1 file changed, 3 insertions(+)
    create mode 100644 file3

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git log
commit d30fcba1171f9b68a712b4803466a55597570d9 (HEAD -> master)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:35:56 2024 +0530

    3rd commit

commit 9c3f6848d156bfb5569fef38f3c9223d0275c40a
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ |
```

- Now two branches merged by using the command `git merge <branch name>`.
- After merging we see the all commits in the master branch.


```
MINGW64~/OneDrive/Desktop/chinni (master)
$ git log
commit e559fb5b0e96e39f051db5f393b071b2ea609e2e (HEAD -> master)
Merge: d30fcba c56485a
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:40:35 2024 +0530

    Merge branch 'dev'

commit d30fcba1171f9b68a712b4803466a55597570d9
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:35:56 2024 +0530

    3rd commit

commit c56485a0d4d6145854de640e92b9afa59a320925 (dev)
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:35:56 2024 +0530

    3rd commit

commit b35428d93fb5e289d5c66ce7d5075fcbe498b1f
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:34:26 2024 +0530

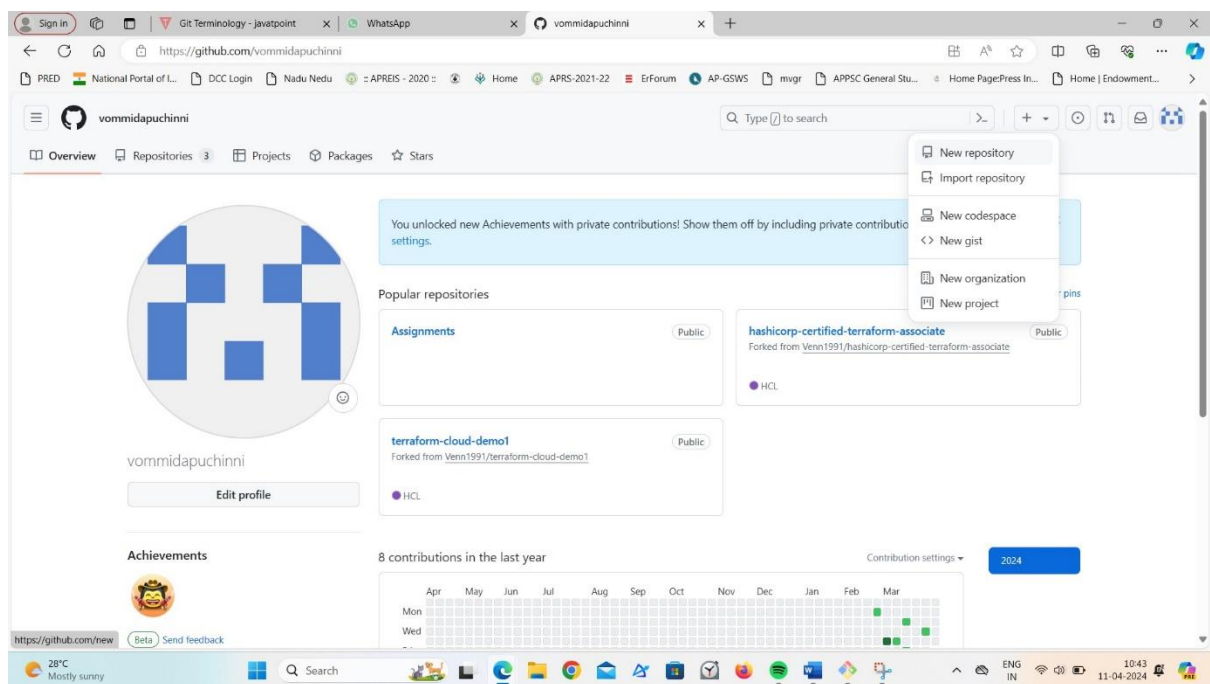
    2nd commit

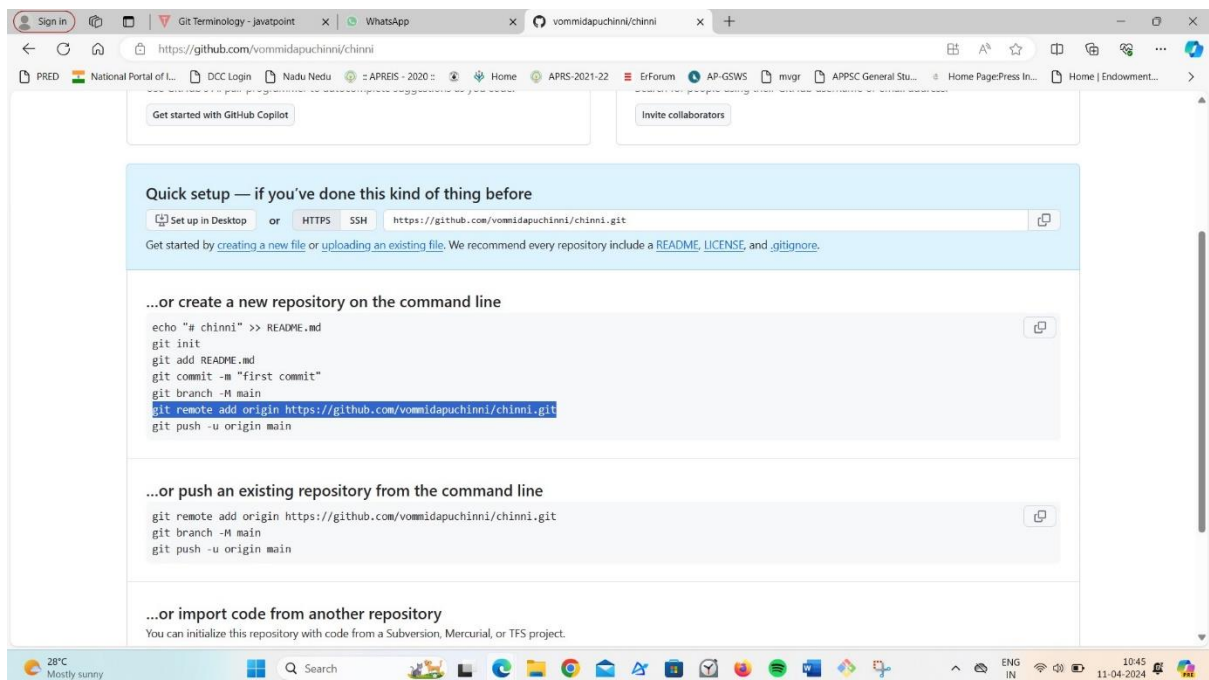
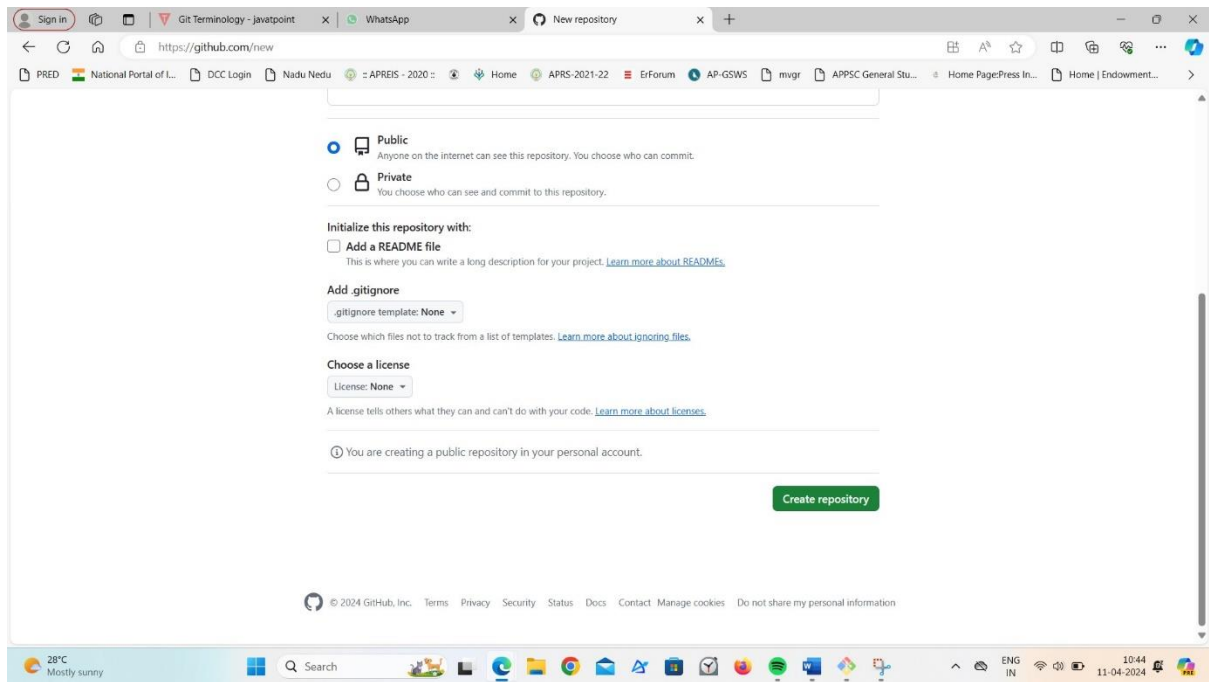
commit 9c3f6848d156bf5569fef38f3c9223d0275c40a
Author: vommidapuchinni <vommidapuchinni@gmail.com>
Date: Thu Apr 11 10:30:08 2024 +0530

    1st commit

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$
```

- Now go to GitHub account and create repository.





- And copy the git remote add URL paste into the gitbash
- “git push origin master” using this command files are upload into the repository
- Now we can see the files in the Repository

```

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git remote add origin https://github.com/vommidapuchinni/chinni.git

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ git push origin master
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (12/12), 970 bytes | 970.00 KiB/s, done.
Total 12 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/vommidapuchinni/chinni.git
 * [new branch]      master -> master

umama@DESKTOP-HBLJM57 MINGW64 ~/OneDrive/Desktop/chinni (master)
$ |

```

The image is a screenshot of a web browser displaying the GitHub repository page for 'vommidapuchinni/chinni'. The browser's address bar shows the URL 'https://github.com/vommidapuchinni/chinni'. The repository page itself has a header with the repository name and a 'Public' label. Below this, there are tabs for 'master', '1 Branch', and '0 Tags'. A search bar and an 'Add file' button are visible. The main content area shows a list of files: 'file1', 'file2', and 'file3', each with its commit history (e.g., '1st commit', '2nd commit', '3rd commit') and the time since the last commit (e.g., '17 minutes ago', '12 minutes ago', '7 minutes ago'). Below the file list, there is a section for adding a README, with a large 'Add a README' button. The right sidebar contains repository statistics: 'About' (no description), 'Activity' (0 stars, 1 watching, 0 forks), 'Releases' (no releases published), and 'Packages' (no packages published). The browser's taskbar at the bottom shows various application icons and system information like '28°C Mostly sunny' and '10:47 11-04-2024'.