

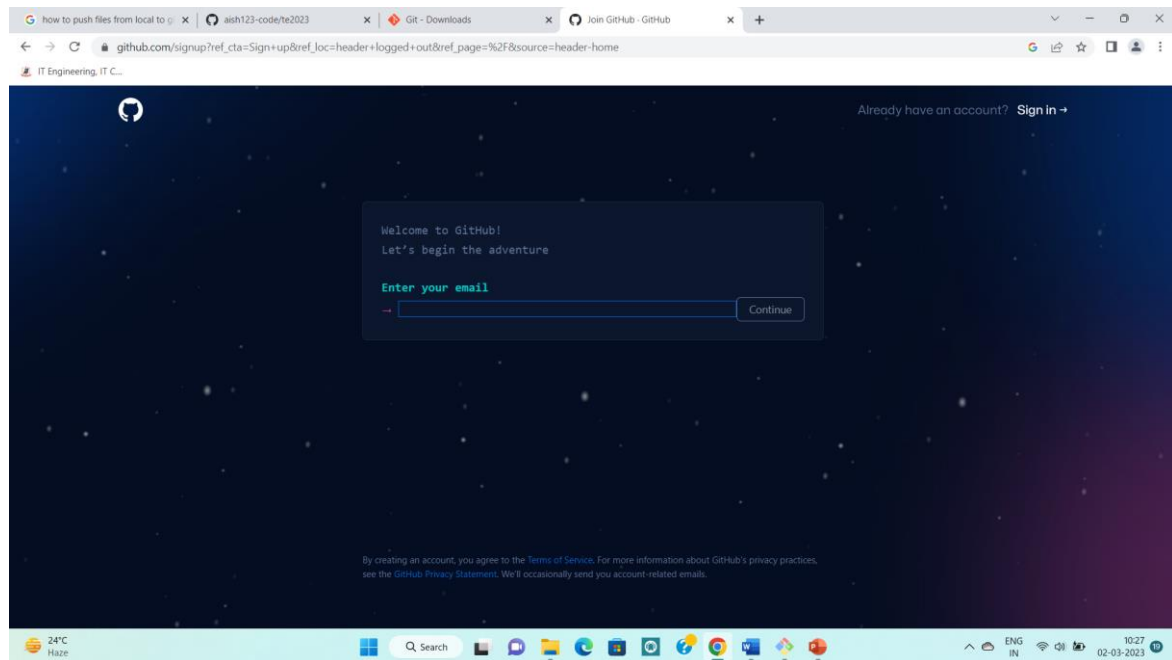
## Aim:

**Create version control account on GitHub and using Git commands to create repository and push your code to GitHub.**

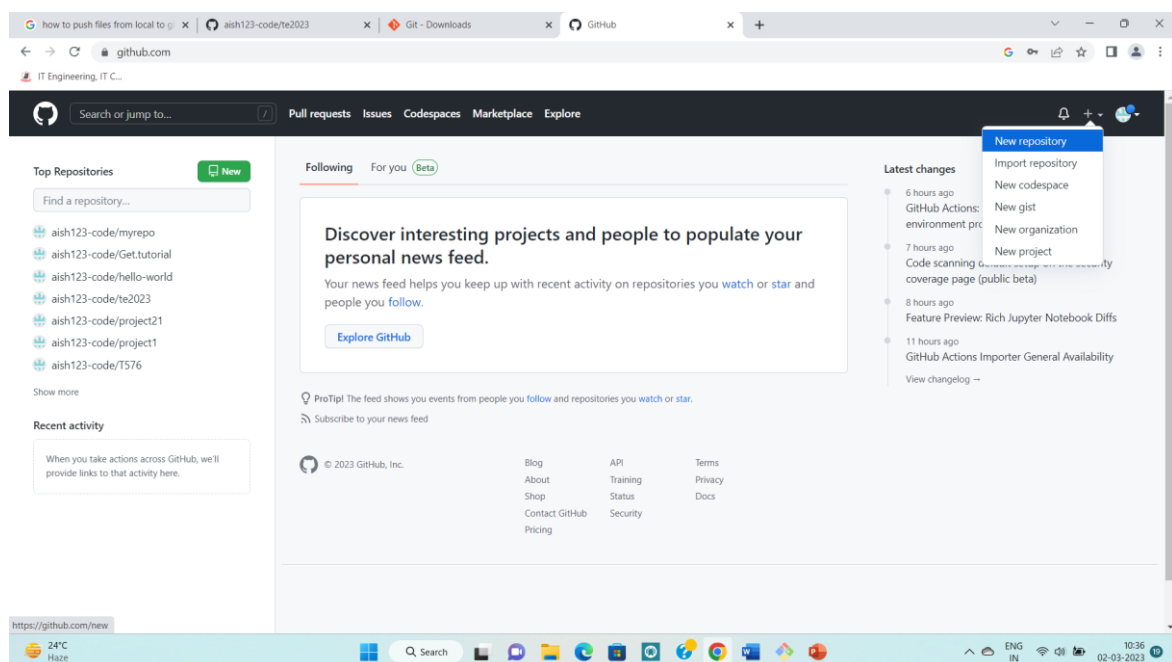
## Implementation Steps:

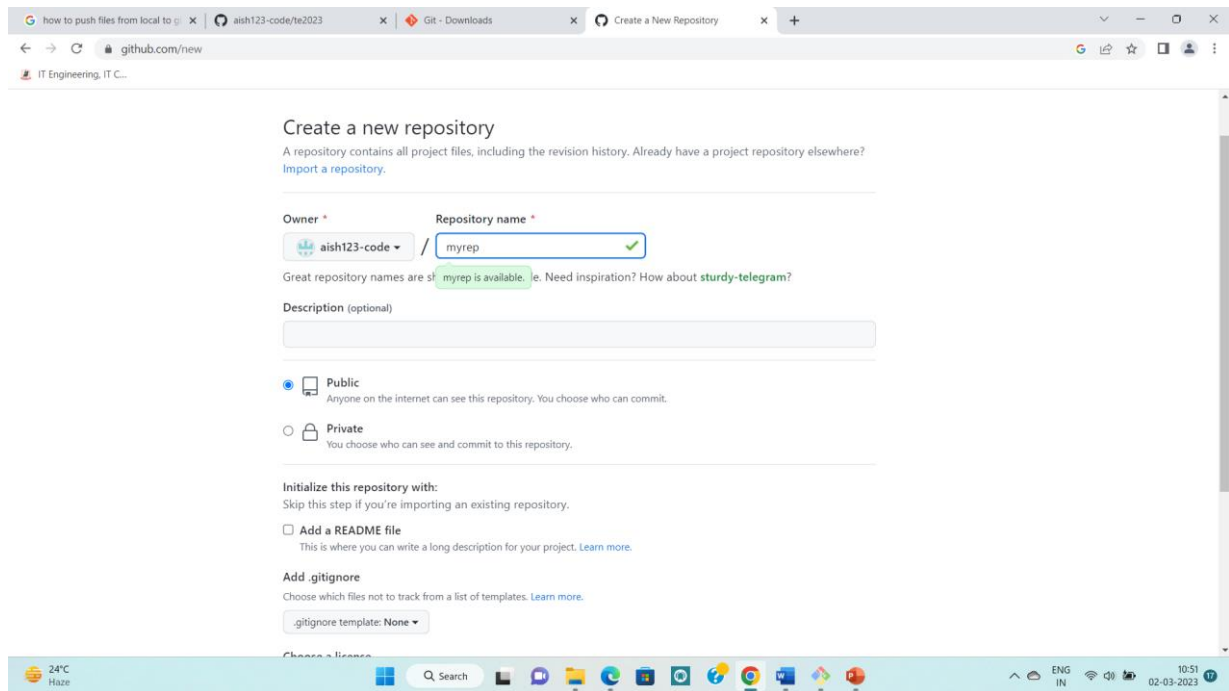
### Step 1: Create account on GitHub.

**Link:** [github.com](https://github.com)



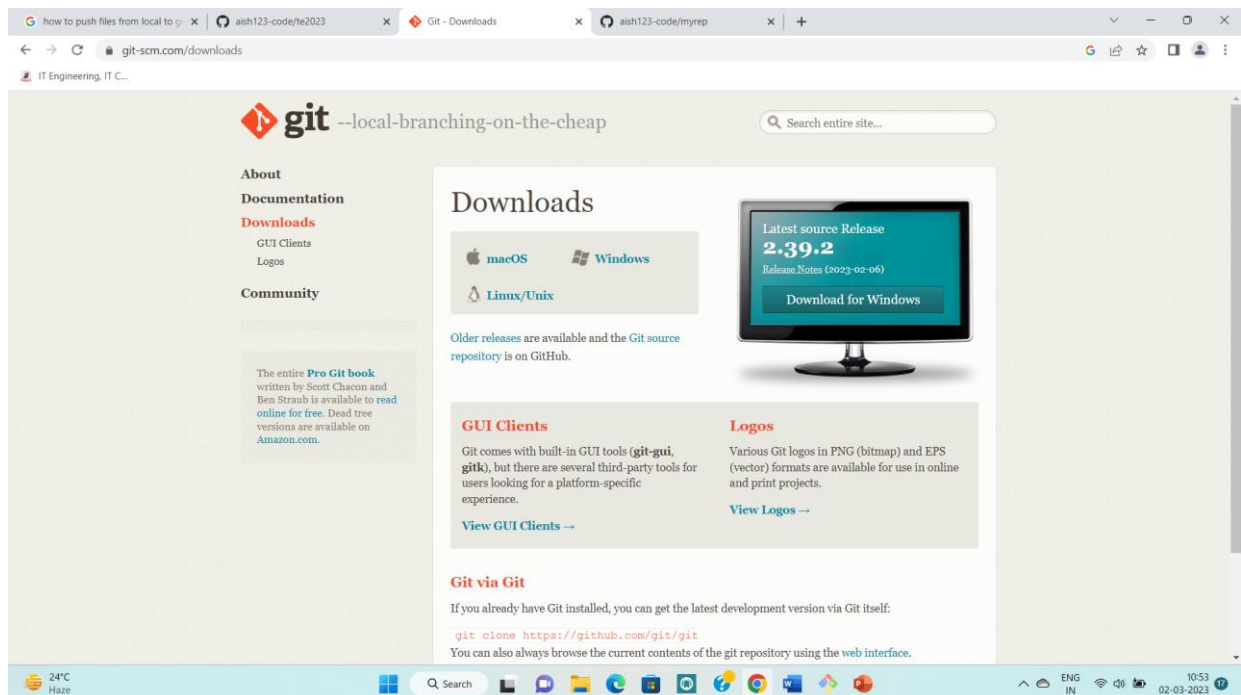
### Step 2: Create a remote repository in GitHub





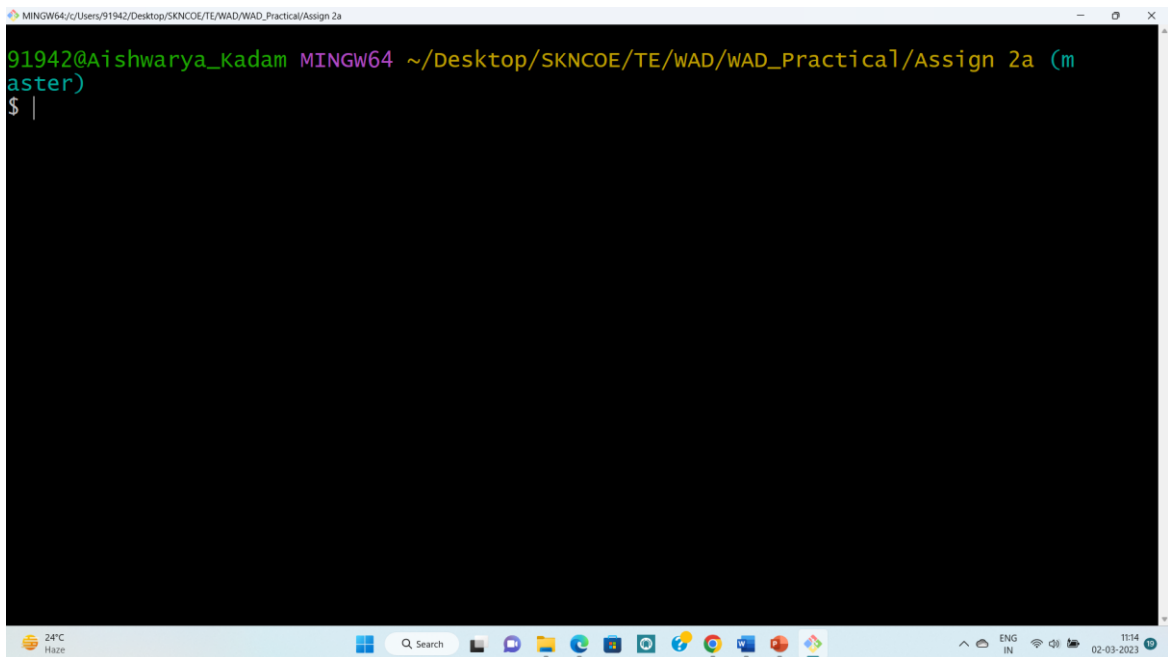
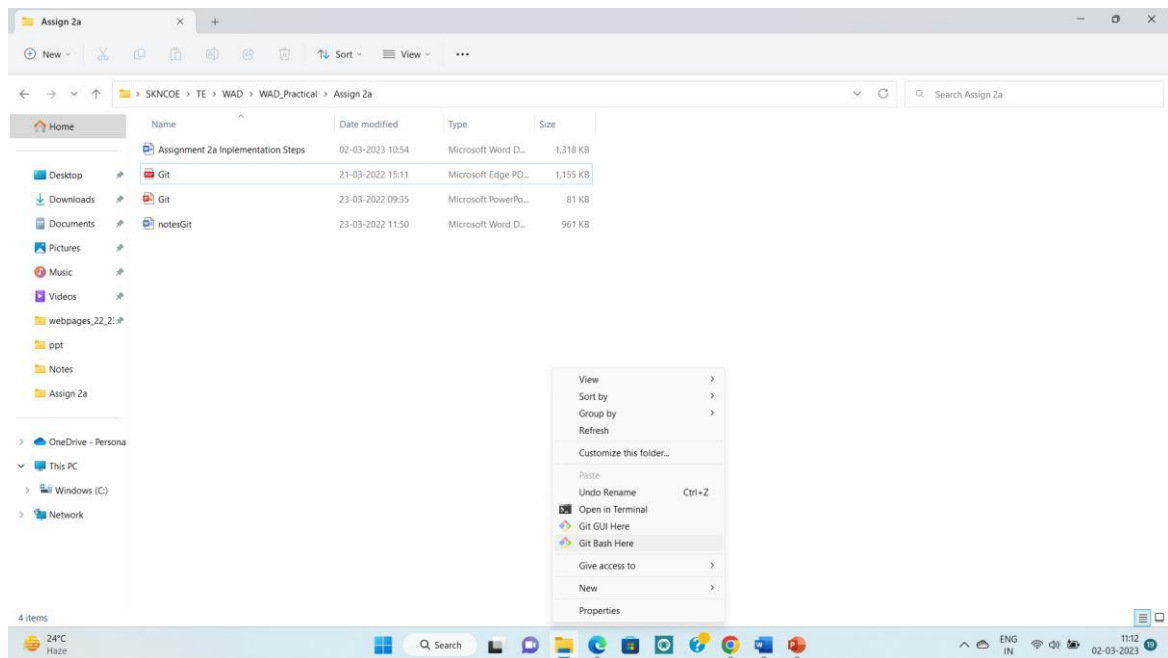
### Step 3: Download Git Bash

Link: <https://git-scm.com/downloads>



## Step 4: Create Local Git Repository

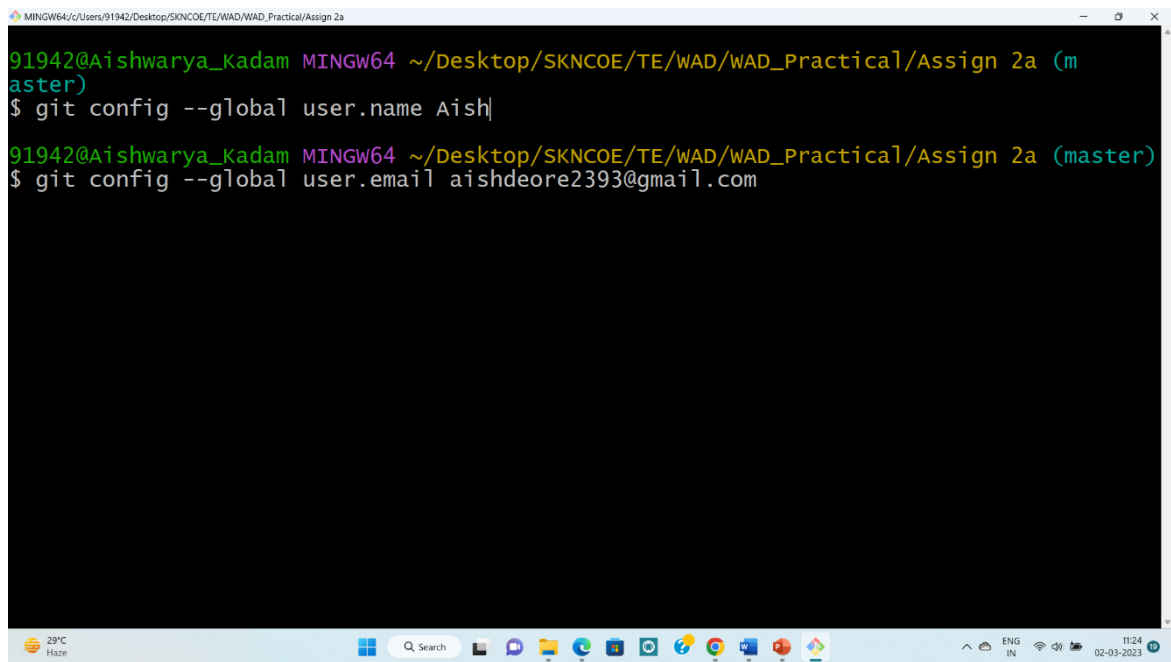
### 1) Open Git Bash



### 2) Git config

The git config command is a convenience function that is used to set Git Configuration values on a global or local project level.

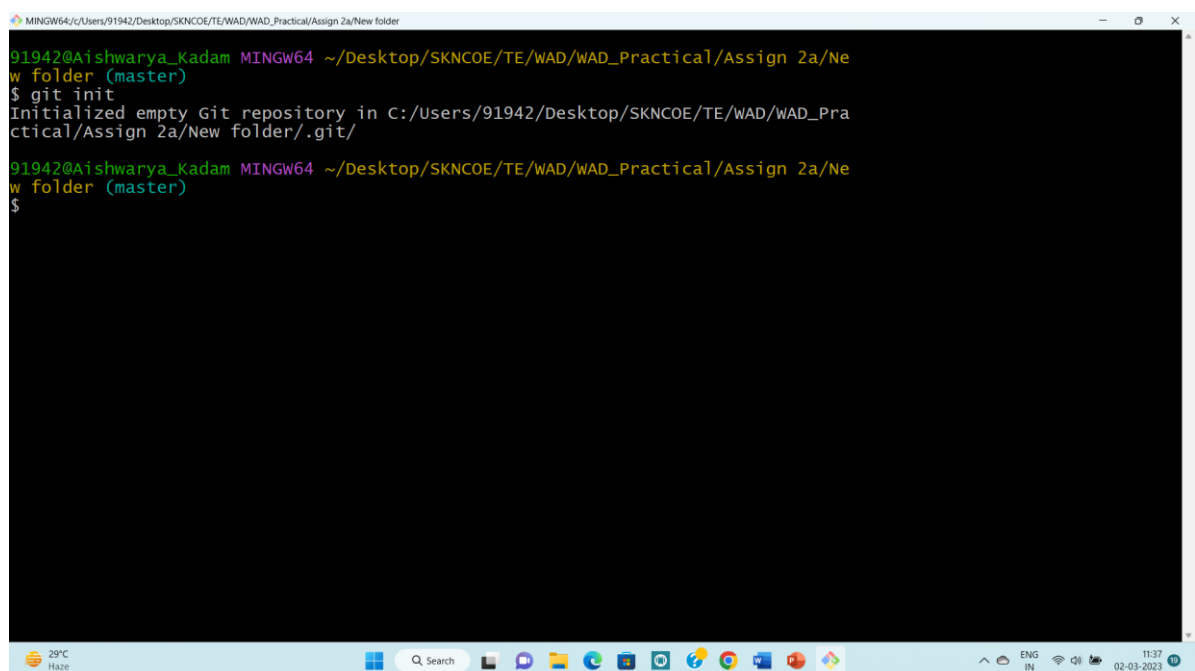
To set your Git username, run the git config –global user.name command.



```
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a (master)
$ git config --global user.name Aish
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a (master)
$ git config --global user.email aishdeore2393@gmail.com
```

### 3) Git init

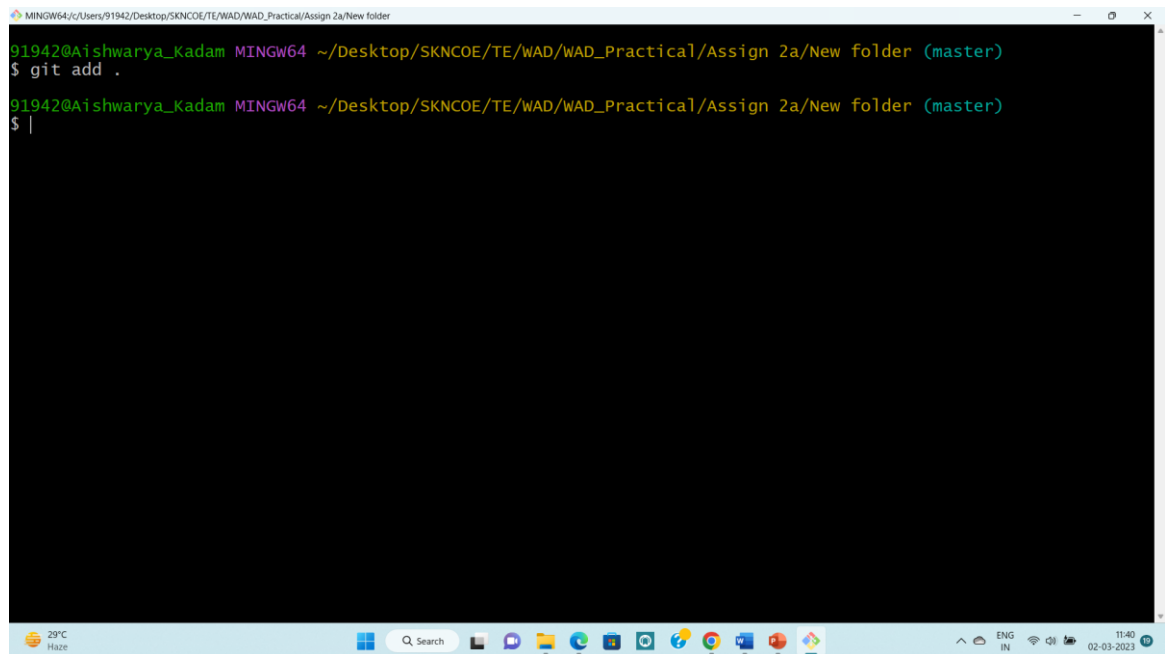
git init is **one way to start a new project with Git**. To start a repository, use either git init or git clone - not both. To initialize a repository, Git creates a hidden directory called .git. That directory stores all of the objects and refs that Git uses and creates as a part of your project's history.



```
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder
$ git init
Initialized empty Git repository in C:/Users/91942/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder/.git/
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$
```

#### 4) Git add

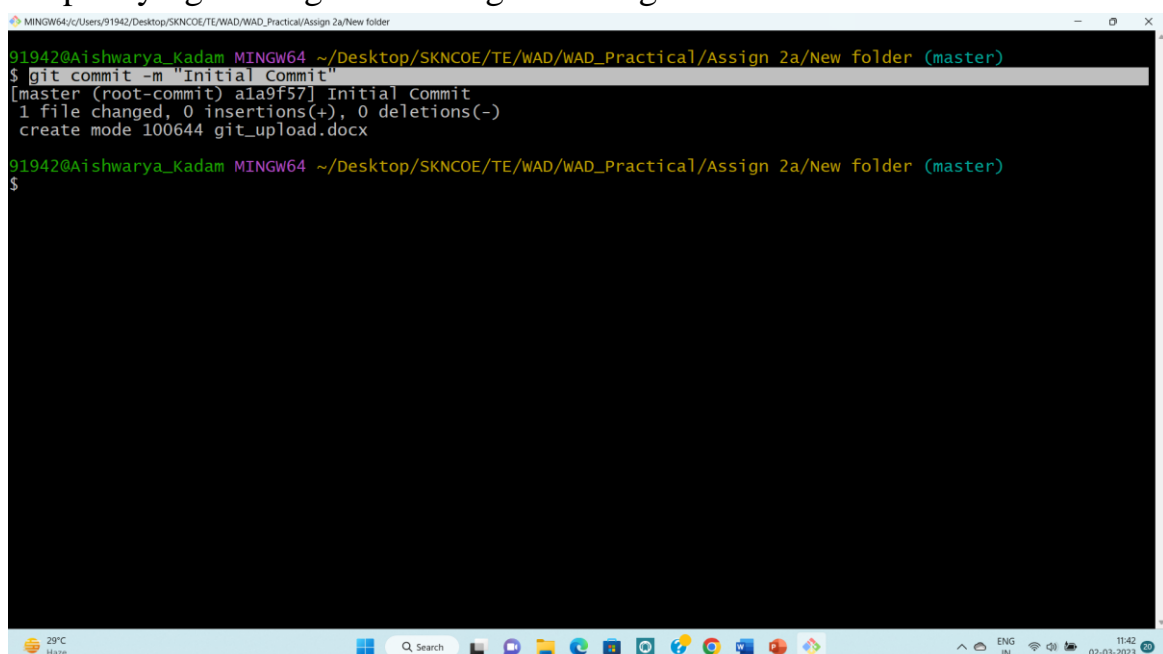
The git add command **adds a change in the working directory to the staging area**. It tells Git that you want to include updates to a particular file in the next commit.



```
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git add .
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ |
```

#### 5) Git initial commit

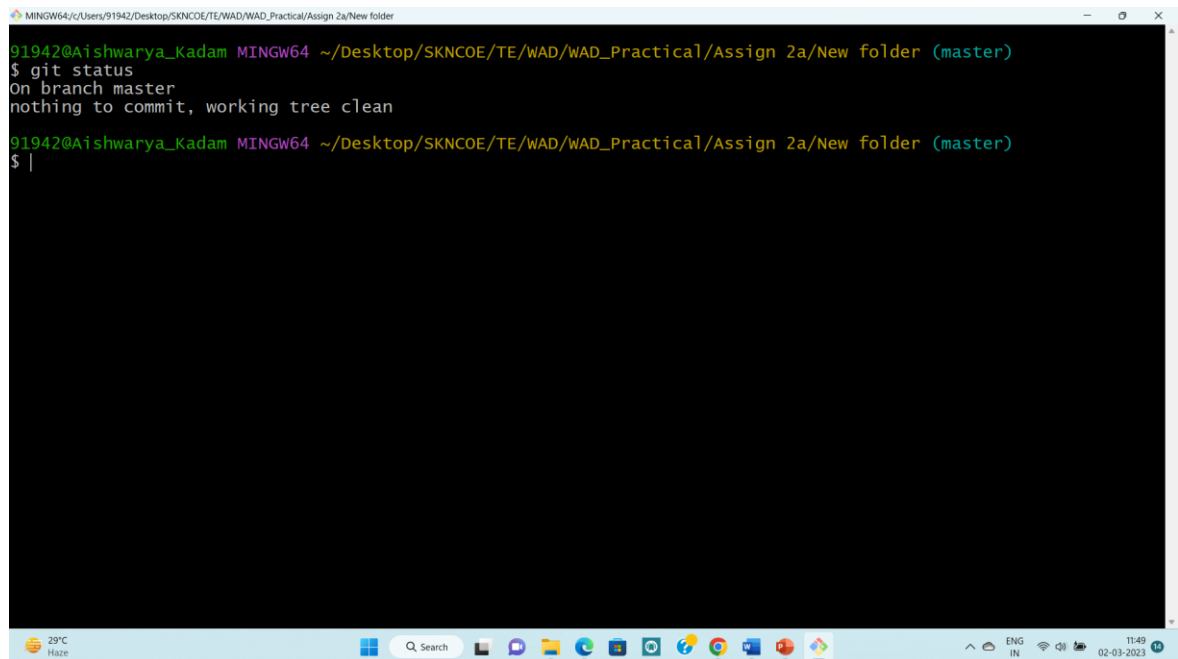
First commit that a developer makes when they start a new software project is called the initial commit. When a developer makes a commit, they have the option of specifying message describing the changes in that commit.



```
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git commit -m "Initial Commit"
[master (root-commit) ala9f57] Initial Commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 git_upload.docx
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$
```

## 6) Git Status

The `git status` command **displays the state of the working directory and the staging area**. It lets you see which changes have been staged, which haven't, and which files aren't being tracked by Git.

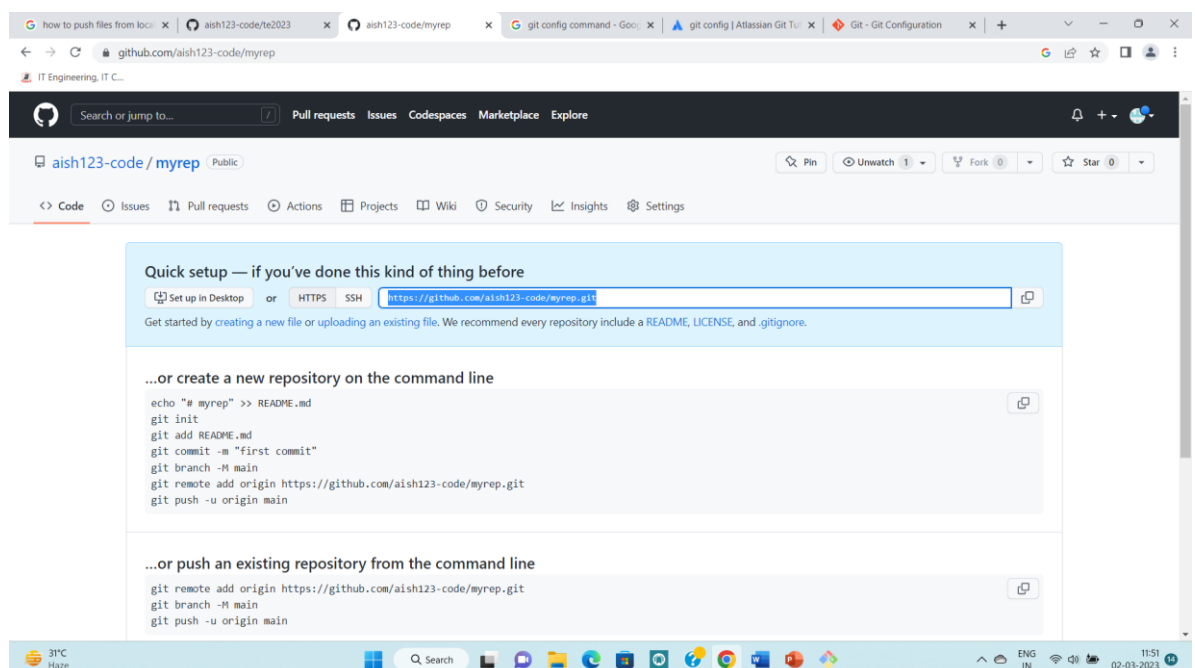
A screenshot of a Windows terminal window with a black background and green text. The window title is "MINGW64: c:/Users/91942/Desktop/SKNCOE/TE/WAD/WAD\_Practical/Assign 2a/New folder". The prompt is "91942@Aishwarya\_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD\_Practical/Assign 2a/New folder (master)". The user enters "\$ git status" and the output is "On branch master\nnothing to commit, working tree clean". The user then enters "\$ |" and the prompt returns to "\$ |". The Windows taskbar is visible at the bottom with a temperature of 29°C and date 02-03-2023.

```
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git status
On branch master
nothing to commit, working tree clean

91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ |
```

## 7) Git remote add origin

When you run `git remote add origin git@github.com:User/UserRepo.git`, then a new remote created named origin.

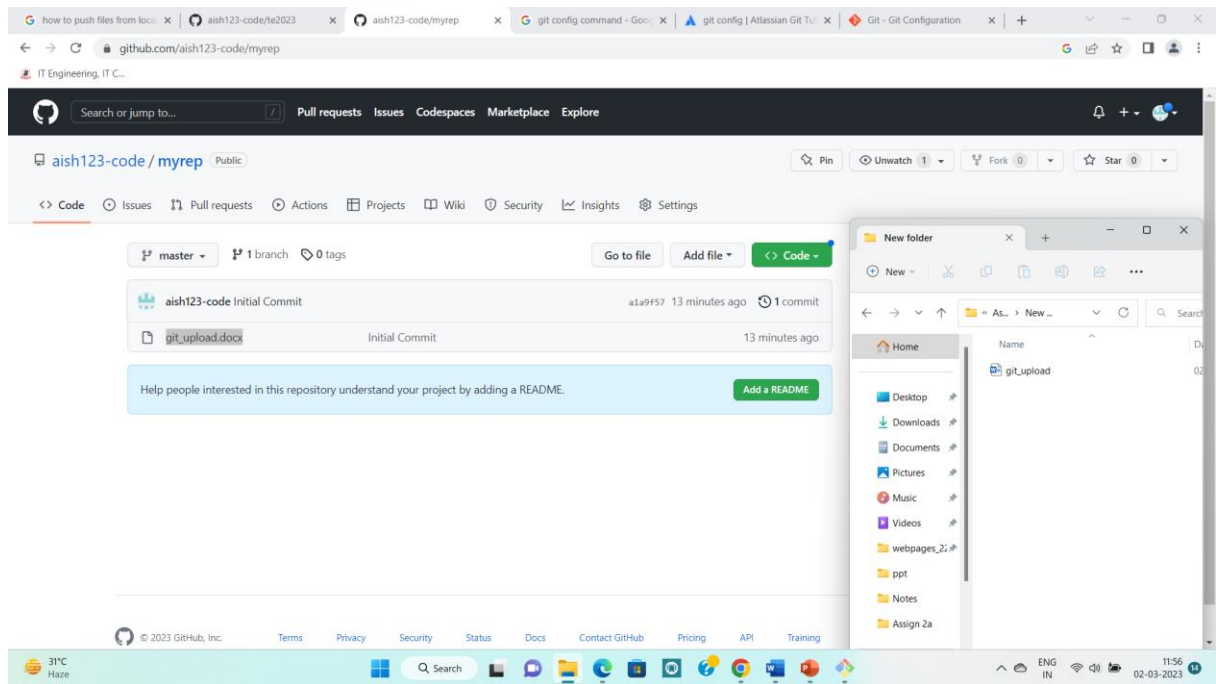


```
MINGW64/c/Users/91942/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git remote add origin https://github.com/aish123-code/myrep.git
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$
```

## 8) Git push

The git push command is used to upload local repository content to a remote repository. Pushing is how you transfer commits from your local repository to a remote repo.

```
MINGW64/c/Users/91942/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git remote add origin https://github.com/aish123-code/myrep.git
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$ git push origin master
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 219 bytes | 219.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/aish123-code/myrep.git
 * [new branch]      master -> master
91942@Aishwarya_Kadam MINGW64 ~/Desktop/SKNCOE/TE/WAD/WAD_Practical/Assign 2a/New folder (master)
$
```



### If Error:

remote: Support for password authentication was removed on August 13, 2021. Please use a personal access token instead.

remote: Please see <https://github.blog/2020-12-15-token-authentication-requirements-for-git-operations/> for more information.

fatal: Authentication failed for 'https://github.com/aish123-code/firstrepo.git/'

**Use My Account → Settings → Developer settings → Personal access tokens → Generate new token.**

```
git remote set-url origin  
https://<token>@github.com/<username>/<repo>
```