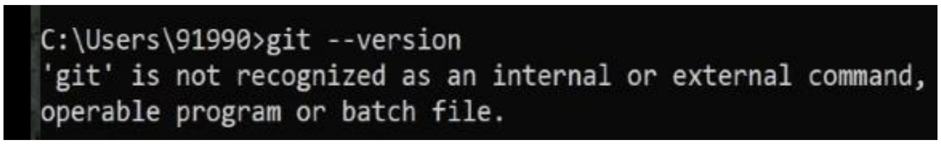
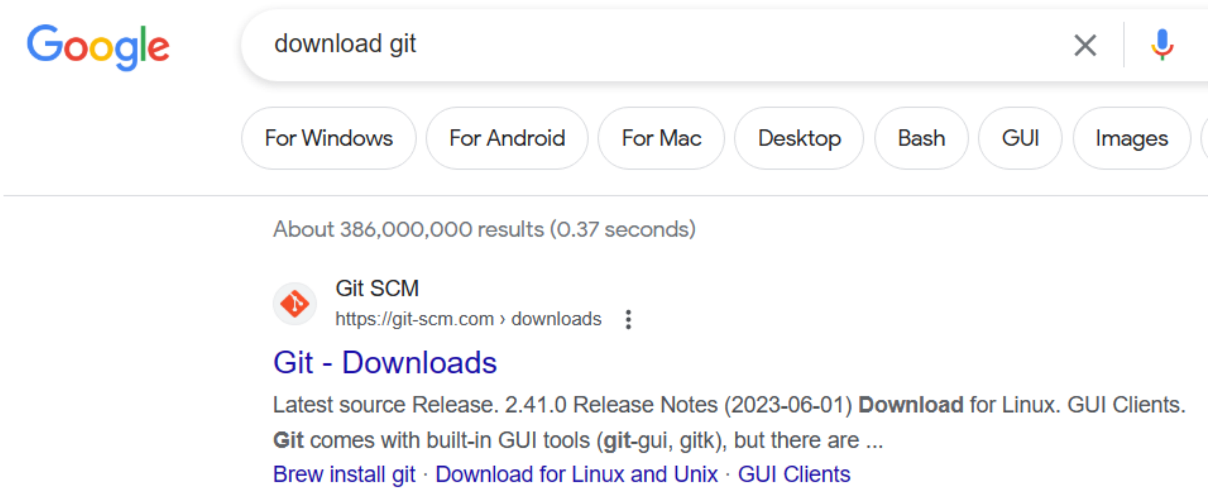
How to check if git is installed on system-



```
C:\Users\91990>git --version
'git' is not recognized as an internal or external command,
operable program or batch file.
```

This means git is not installed.

To download git-



download git

For Windows · For Android · For Mac · Desktop · Bash · GUI · Images

About 386,000,000 results (0.37 seconds)

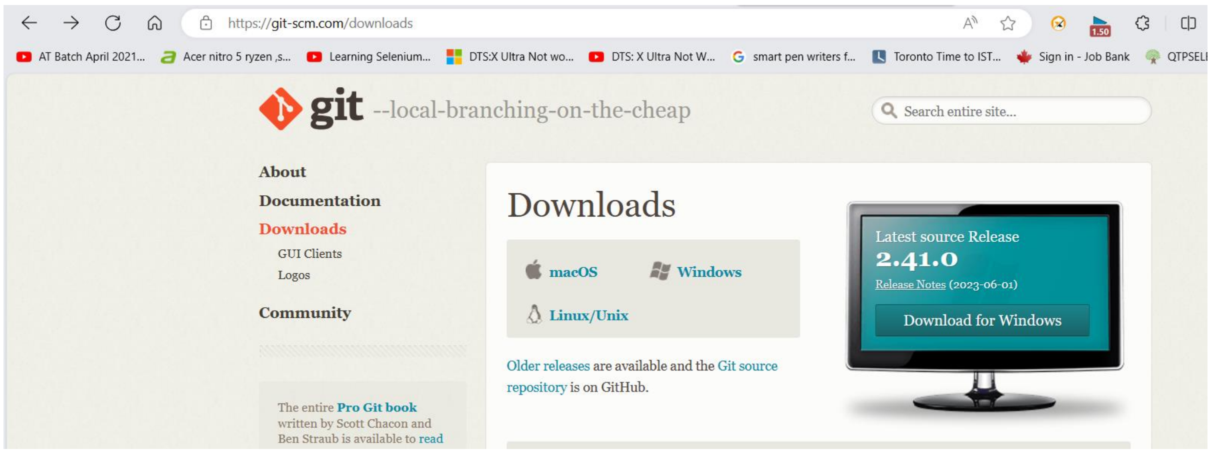
Git SCM
https://git-scm.com › downloads

Git - Downloads

Latest source Release. 2.41.0 Release Notes (2023-06-01) **Download** for Linux. GUI Clients. **Git** comes with built-in GUI tools (**git**-gui, gitk), but there are ...

Brew install git · Download for Linux and Unix · GUI Clients

Download as per your machine.



https://git-scm.com/downloads

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git --local-branching-on-the-cheap

Search entire site...

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Documentation
Downloads
GUI Clients
Logos
Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read

Downloads

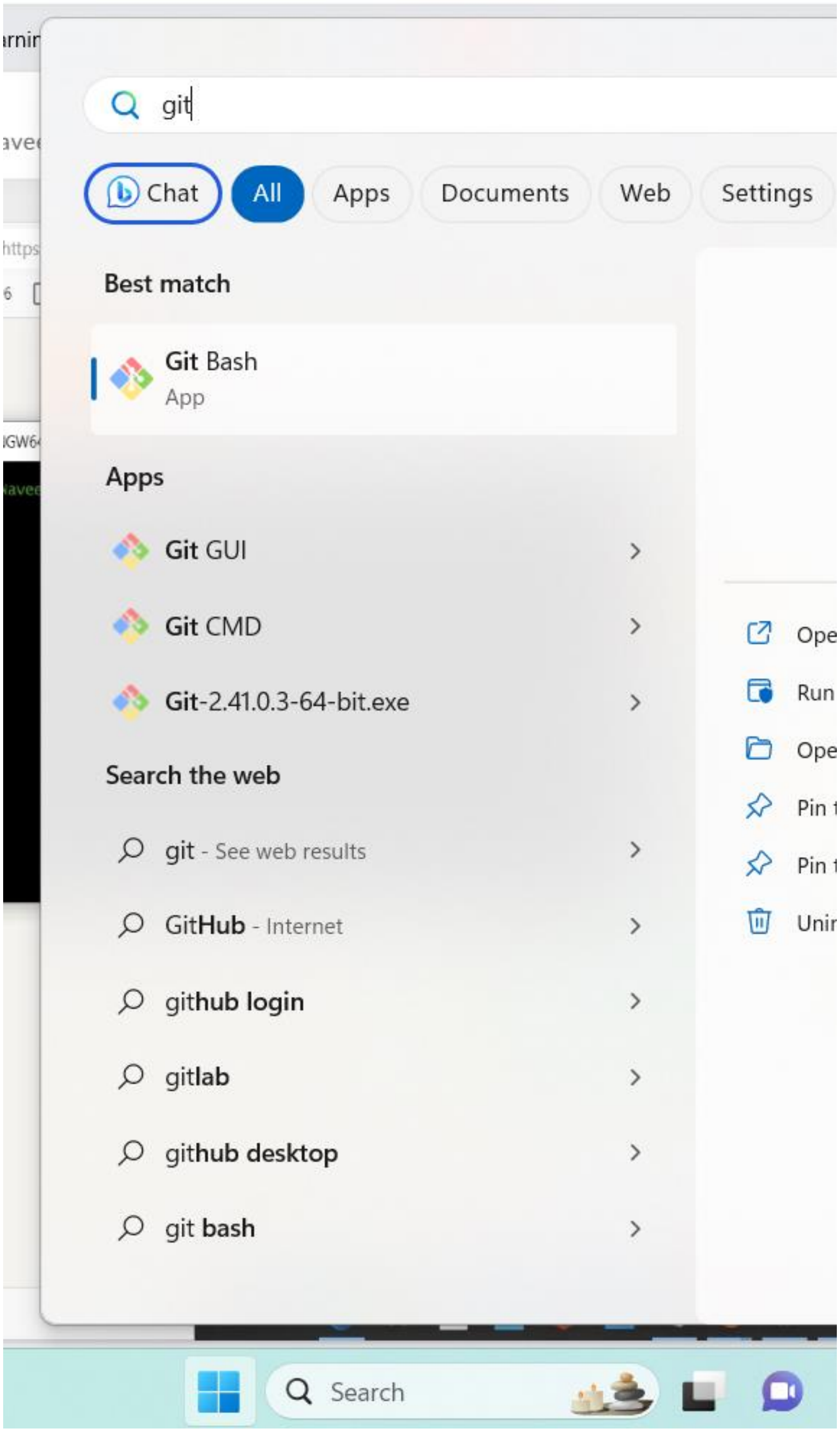
macOS · Windows · Linux/Unix

Older releases are available and the Git source repository is on GitHub.

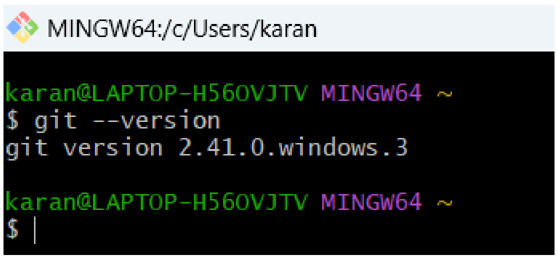
Latest source Release
2.41.0
Release Notes (2023-06-01)
Download for Windows

Keep clicking next on exe and it will be installed.

Search for git bash and you will see here this icon once installed-



Git version-

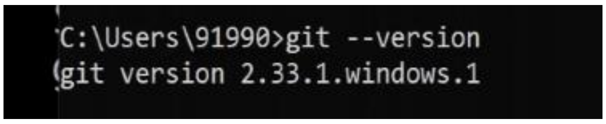


MINGW64:/c/Users/karan

```
karan@LAPTOP-H560VJTV MINGW64 ~
$ git --version
git version 2.41.0.windows.3

karan@LAPTOP-H560VJTV MINGW64 ~
$ |
```

Same command will work on cmd also-

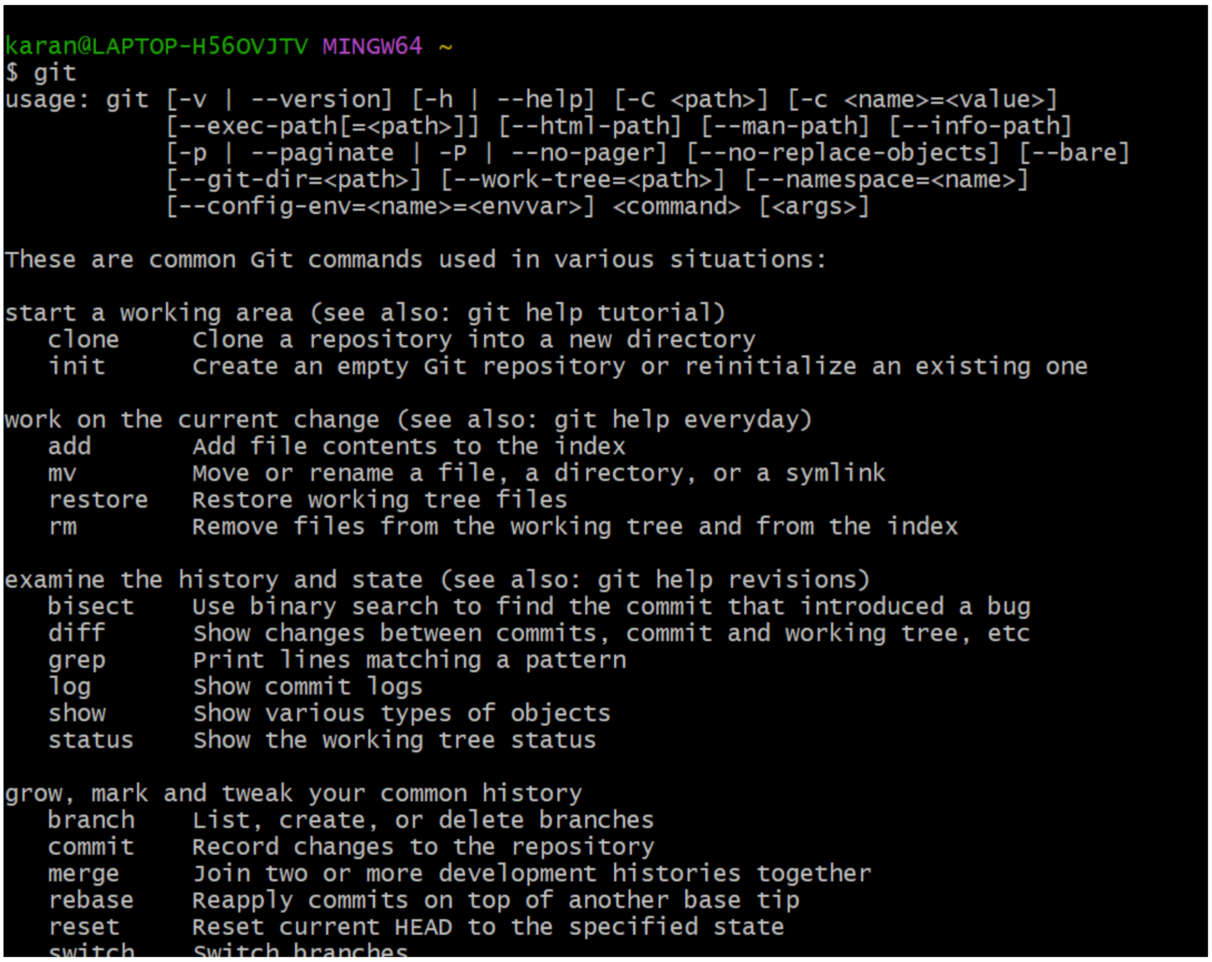
Just open new cmd and run the same command after git installation.



```
C:\Users\91990>git --version
git version 2.33.1.windows.1
```

In git bash we can run unix. Linux commands. So better to use gitbash rather than command prompt.

Just type git and all the commands will be seen-



```
karan@LAPTOP-H560VJTV MINGW64 ~
$ git
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
           [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
           [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
           [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
           [--config-env=<name>=<envvar>] <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
   clone      Clone a repository into a new directory
   init       Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
   add        Add file contents to the index
   mv         Move or rename a file, a directory, or a symlink
   restore    Restore working tree files
   rm         Remove files from the working tree and from the index

examine the history and state (see also: git help revisions)
   bisect     Use binary search to find the commit that introduced a bug
   diff       Show changes between commits, commit and working tree, etc
   grep       Print lines matching a pattern
   log        Show commit logs
   show       Show various types of objects
   status     Show the working tree status

grow, mark and tweak your common history
   branch     List, create, or delete branches
   commit     Record changes to the repository
   merge      Join two or more development histories together
   rebase     Reapply commits on top of another base tip
   reset      Reset current HEAD to the specified state
   switch     Switch branches
```

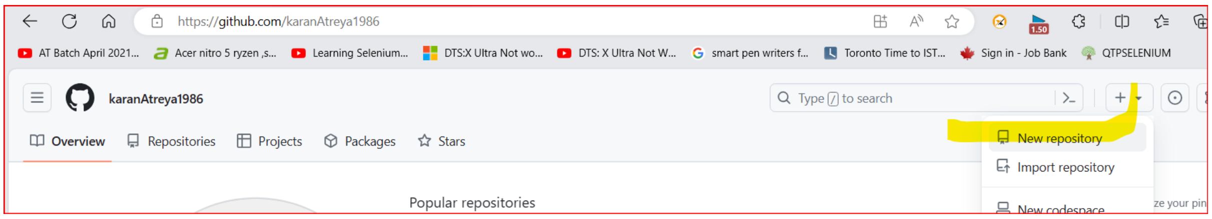
Clear-

Will clear screen.

```
karan@LAPTOP-H56OVJTV MINGW64 ~
$ clear
```

Create free github account.

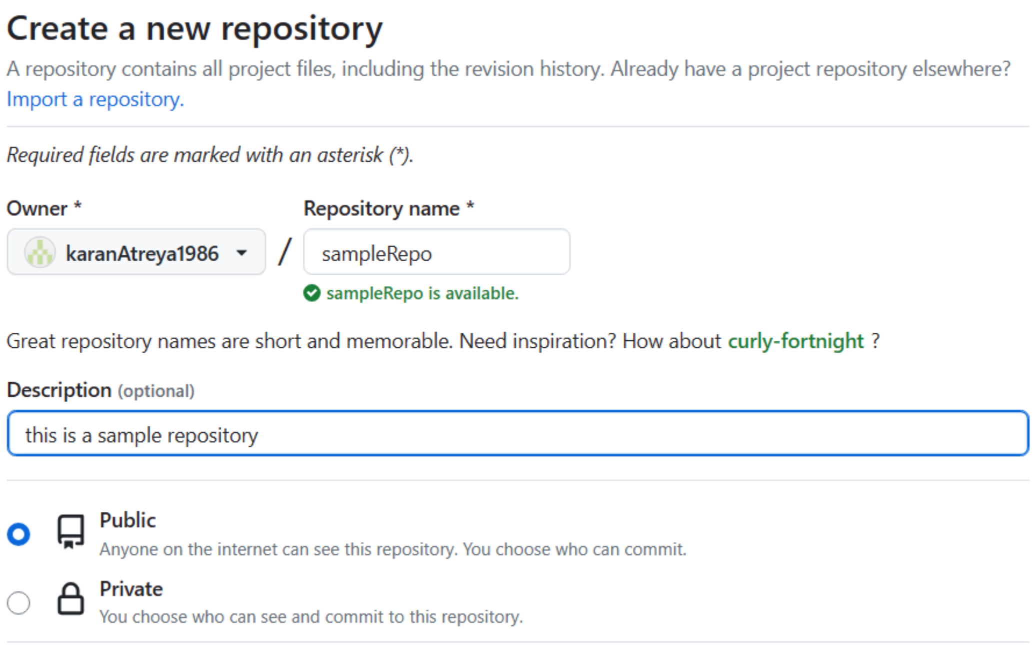
Create new repo-



https://github.com/karanAtreya1986

karanAtreya1986

Just make changes to this areas, rest keep it as is.



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.

Required fields are marked with an asterisk (*).

Owner * karanAtreya1986 / Repository name * sampleRepo

sampleRepo is available.

Great repository names are short and memorable. Need inspiration? How about curly-fortnight ?

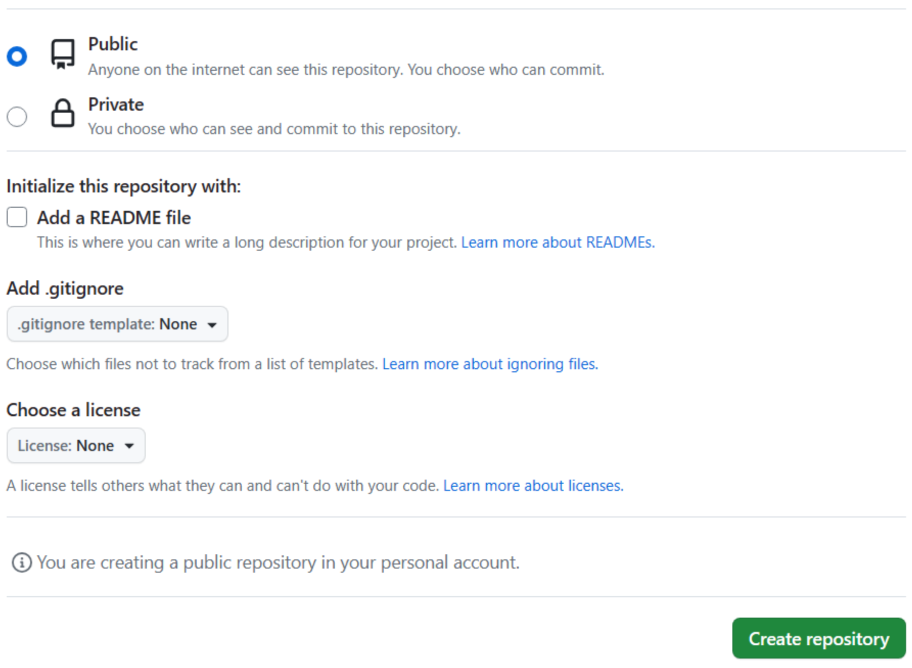
Description (optional)

this is a sample repository

[✓ 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.

Create repo.



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:

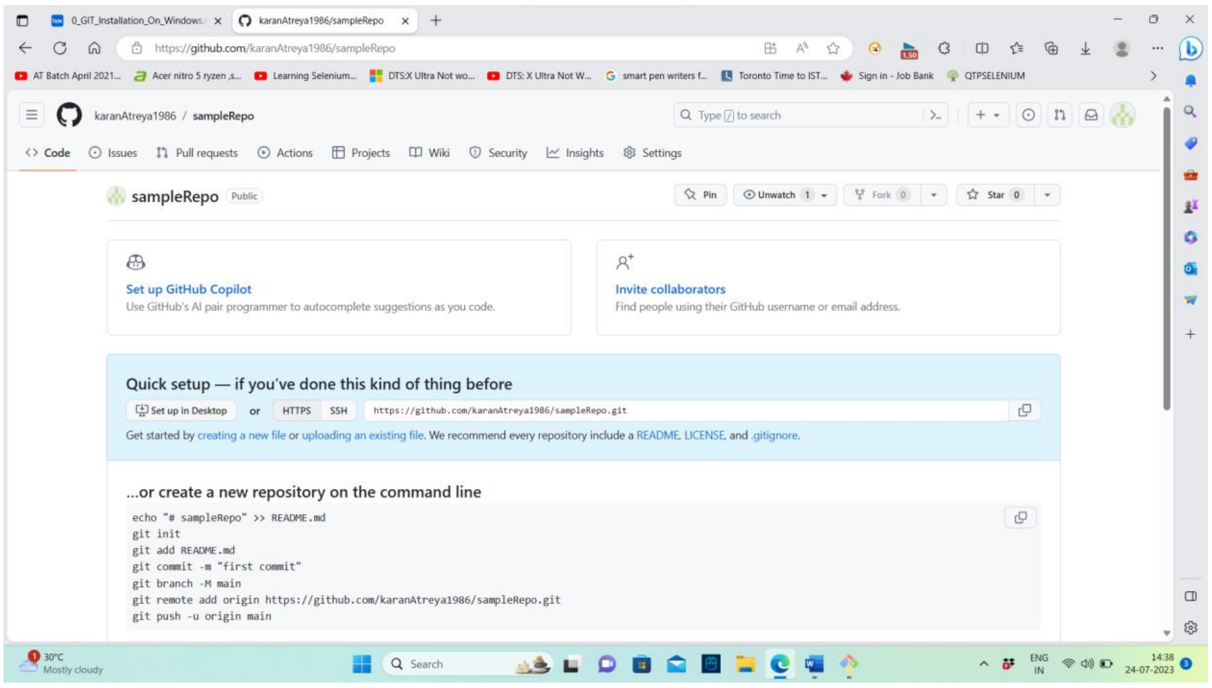
Add a README file
This is where you can write a long description for your project. Learn more about READMEs.

Add .gitignore
.gitignore template: None
Choose which files not to track from a list of templates. Learn more about ignoring files.

Choose a license
License: None
A license tells others what they can and can't do with your code. Learn more about licenses.

You are creating a public repository in your personal account.

Hurray your first repo is ready.



karanAtreya1986 / sampleRepo

sampleRepo Public

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Invite collaborators
Find people using their GitHub username or email address.

Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSH https://github.com/karanAtreya1986/sampleRepo.git

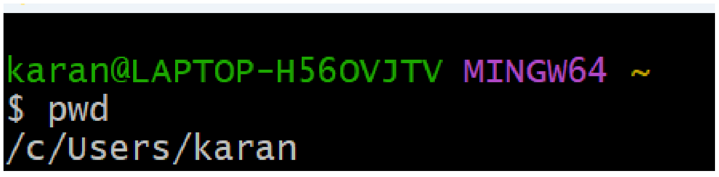
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line

```
echo "# sampleRepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/karanAtreya1986/sampleRepo.git
git push -u origin main
```

Pwd-

Gives current directory path.

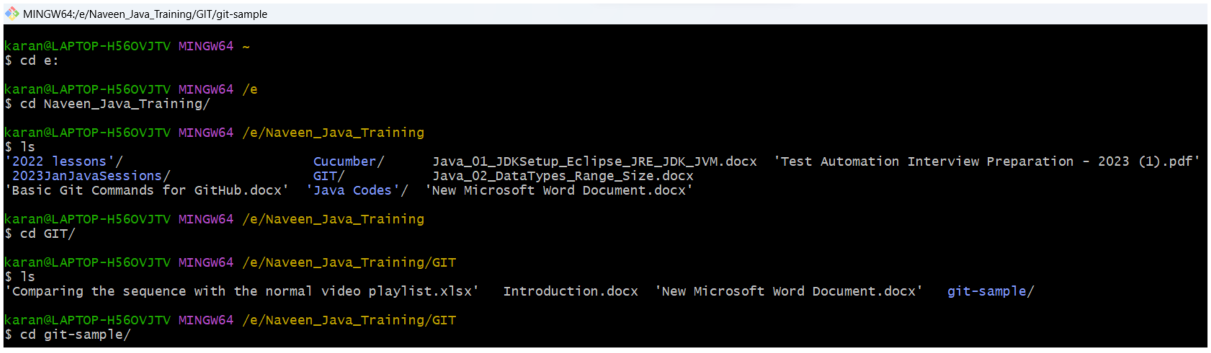


```
karan@LAPTOP-H56OVJTV MINGW64 ~
$ pwd
/c/Users/karan
```

Lets try to push same sample items -

We created normal text file.

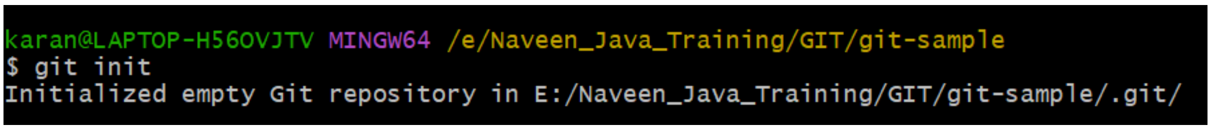
First thing we need to go to the path of the text file we created-



MINGW64:/e/Naveen_Java_Training/GIT/git-sample

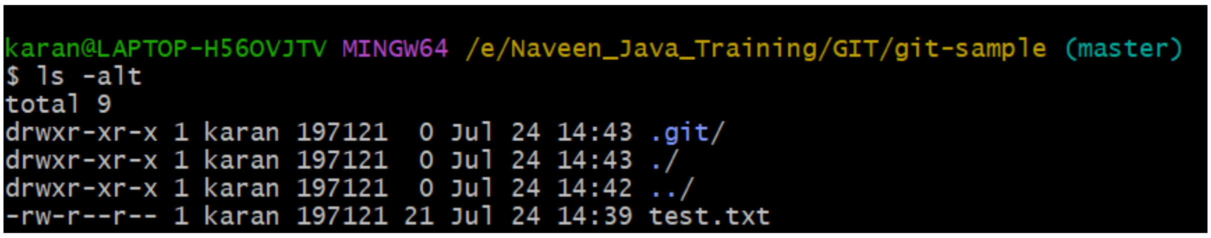
```
karan@LAPTOP-H56OVJTV MINGW64 ~
$ cd e:

karan@LAPTOP-H56OVJTV MINGW64 /e
$ cd Naveen_Java_Training/

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training
$ ls
'2022 lessons'/                   Cucumber/      Java_01_JDKSetup_Eclipse_JRE_JDK_JVM.docx  'Test Automation Interview Preparation - 2023 (1).pdf'
 2023JanJavaSessions/             GIT/           Java_02_DataTypes_Range_Size.docx
'Basic Git Commands for GitHub.docx'  'Java Codes'/  'New Microsoft Word Document.docx'

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training
$ cd GIT/

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT
$ ls
'Comparing the sequence with the normal video playlist.xlsx'   Introduction.docx  'New Microsoft Word Document.docx'   git-sample/

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT
$ cd git-sample/
```

Git init is the first one-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample
$ git init
Initialized empty Git repository in E:/Naveen_Java_Training/GIT/git-sample/.git/
```

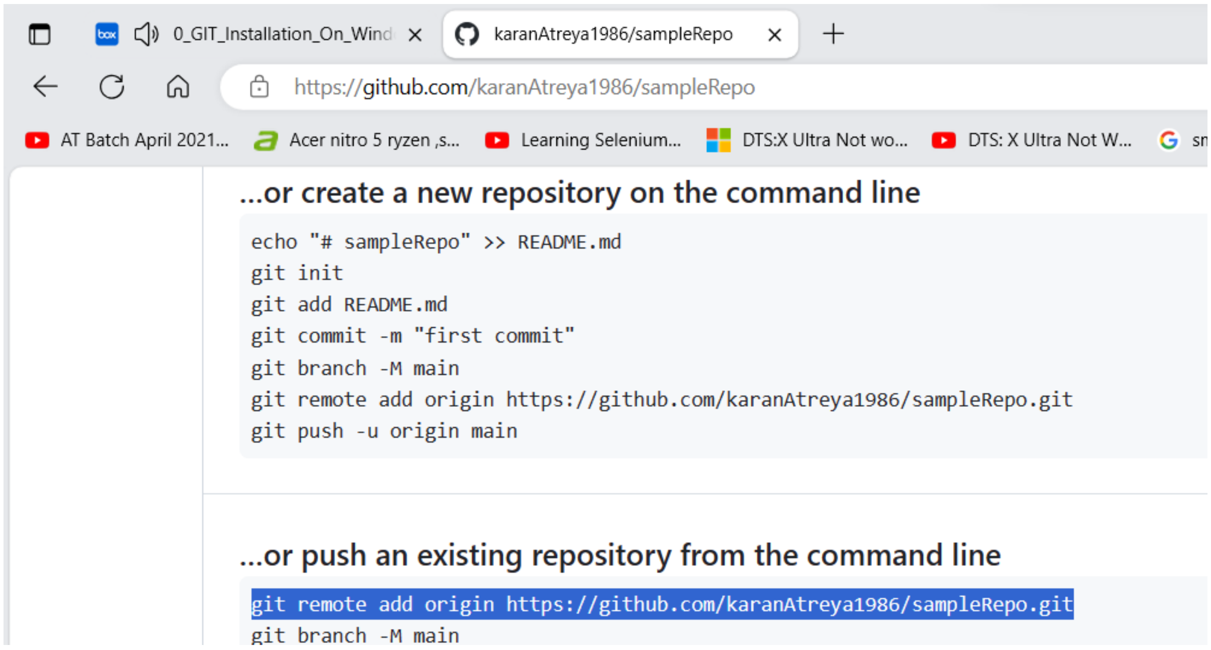
To view hidden and non hidden content-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ ls -alt
total 9
drwxr-xr-x 1 karan 197121  0 Jul 24 14:43 .git/
drwxr-xr-x 1 karan 197121  0 Jul 24 14:43 ./
drwxr-xr-x 1 karan 197121  0 Jul 24 14:42 ../
-rw-r--r-- 1 karan 197121 21 Jul 24 14:39 test.txt
```

Now we want to connect our local to remote repo-

Copy this command from github.



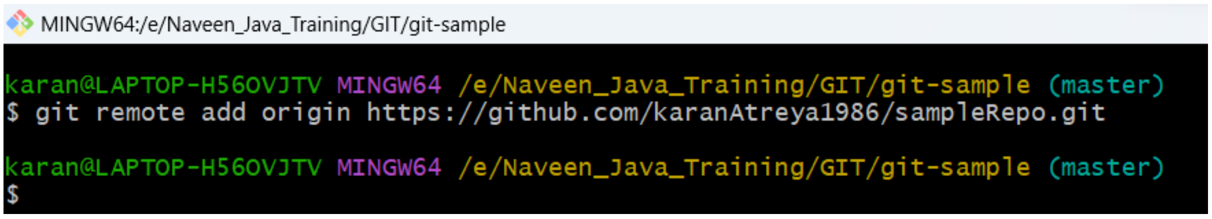
...or create a new repository on the command line

```
echo "# sampleRepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/karanAtreya1986/sampleRepo.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/karanAtreya1986/sampleRepo.git
git branch -M main
```

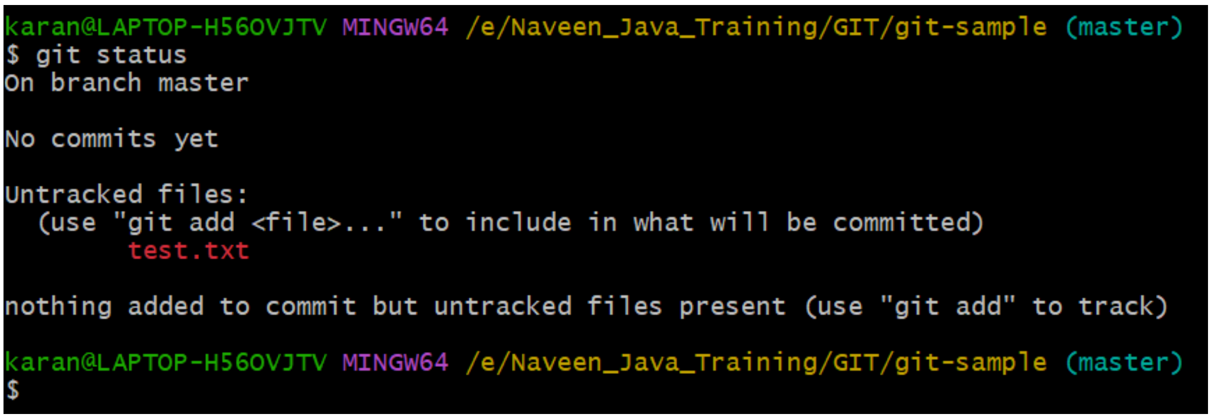
We need to map our local folder with this remote git repo.



MINGW64:/e/Naveen_Java_Training/GIT/git-sample

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git remote add origin https://github.com/karanAtreya1986/sampleRepo.git

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$
```

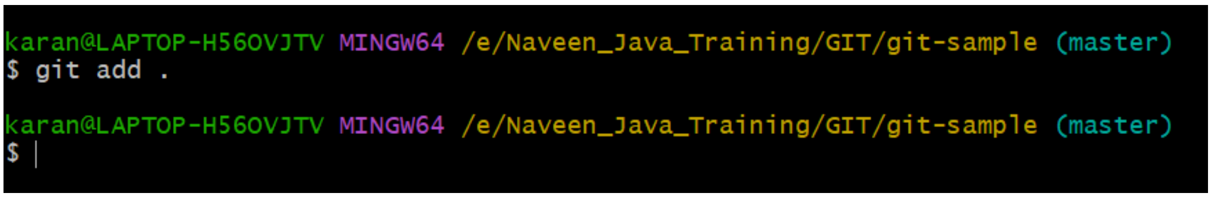
Git status-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git status
On branch master

No commits yet

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

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

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$
```

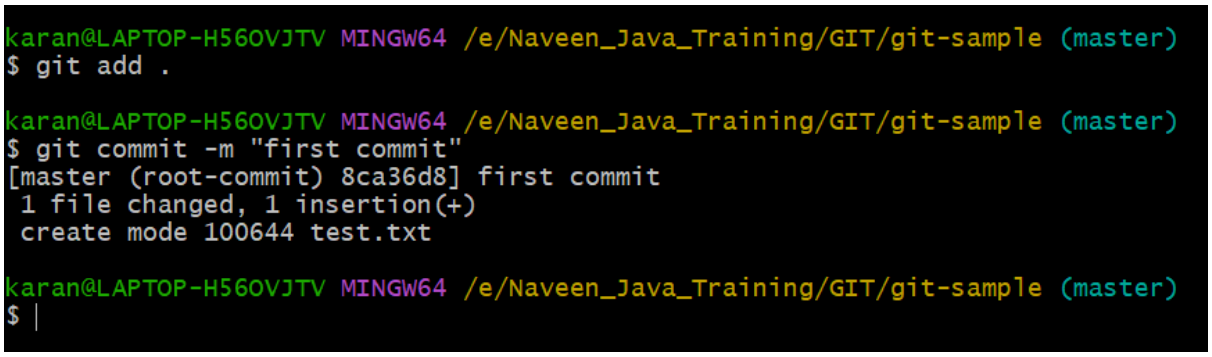
By default master branch created in local.

For adding untracked files-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ |
```

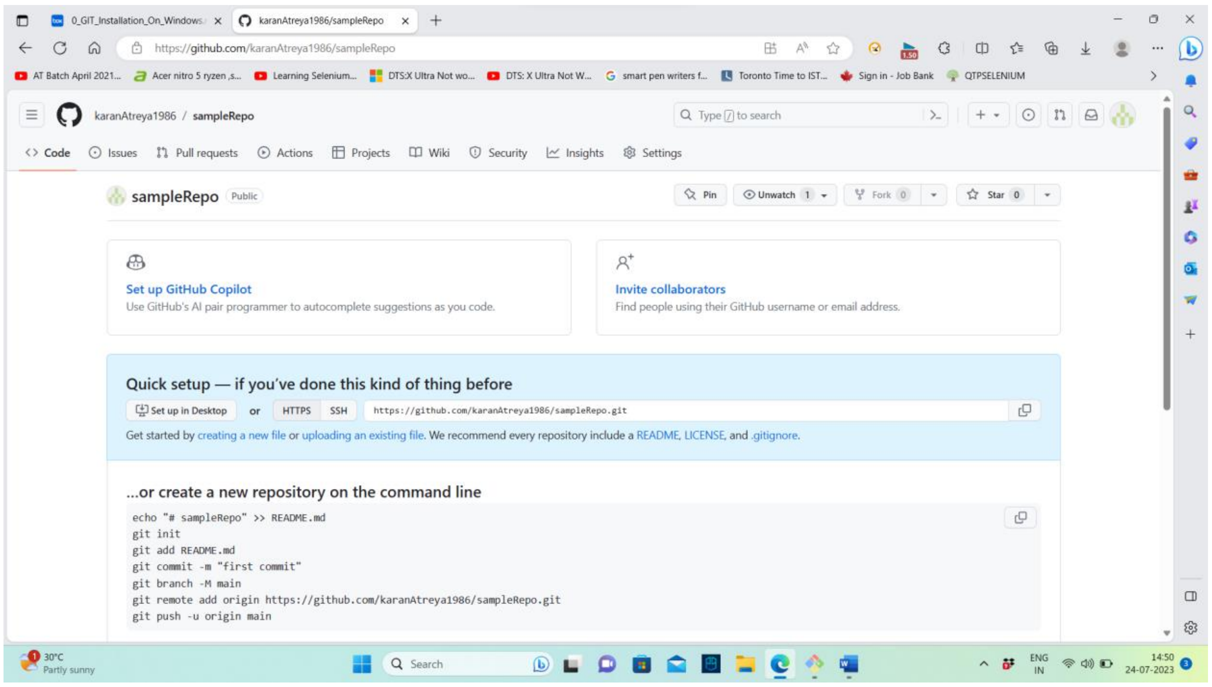
Git commit-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git add .

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git commit -m "first commit"
[master (root-commit) 8ca36d8] first commit
 1 file changed, 1 insertion(+)
 create mode 100644 test.txt

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ |
```

Commit will never push code to repo.

Code is not present in remote repo.



karanAtreya1986 / sampleRepo

sampleRepo Public

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.

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Set up in Desktop or HTTPS SSH https://github.com/karanAtreya1986/sampleRepo.git

Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

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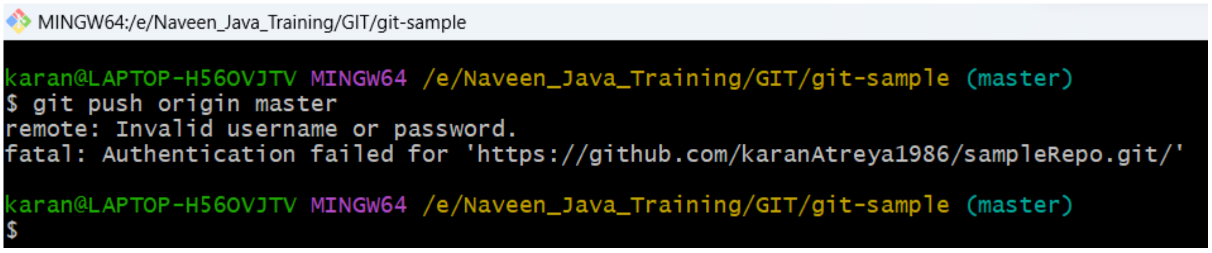
```
echo "# sampleRepo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/karanAtreya1986/sampleRepo.git
git push -u origin main
```

Commit only pushes code to the local cloud or repo.

To push the code to remote repo or github or gitlab cloud-



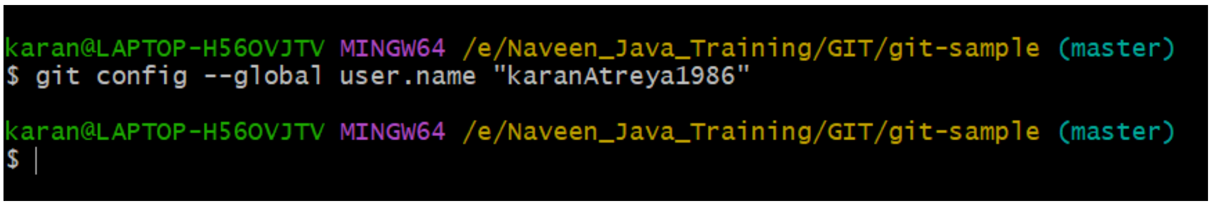
MINGW64:/e/Naveen_Java_Training/GIT/git-sample

```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git push origin master
remote: Invalid username or password.
fatal: Authentication failed for 'https://github.com/karanAtreya1986/sampleRepo.git/'

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$
```

Origin is the remote side. Branch name in remote is master.

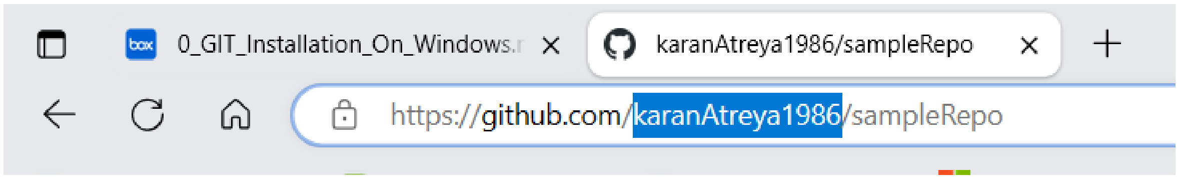
Git wont allow you to push to any repo due to security reason, you have to authenticate yourself.

Configure user name –



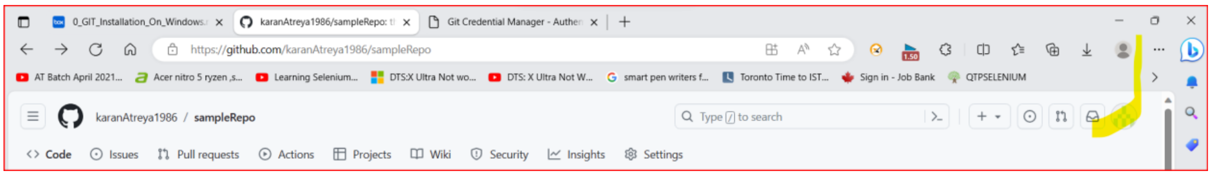
```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git config --global user.name "karanAtreya1986"

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ |
```

Add your github username which is present in url or when you click on your profile.



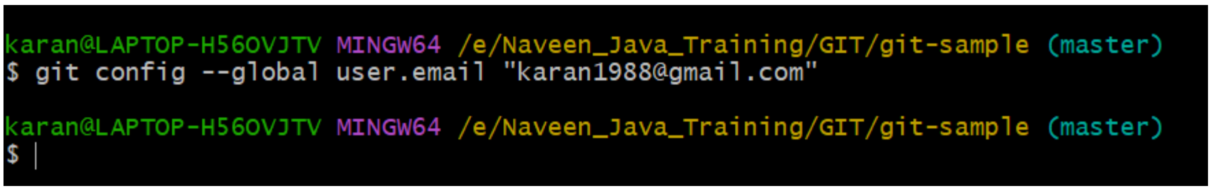
0_GIT_Installation_On_Windows. karanAtreya1986/sampleRepo

https://github.com/karanAtreya1986/sampleRepo



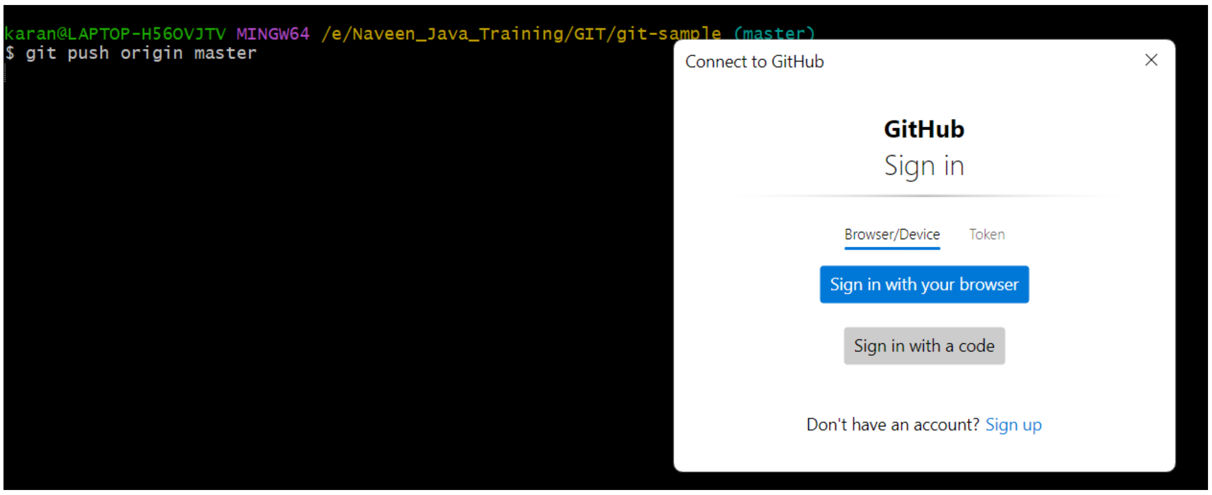
Global is for setting globally. Configuration is usually done at global level to avoid hassles later.

Use the same email registered for github-



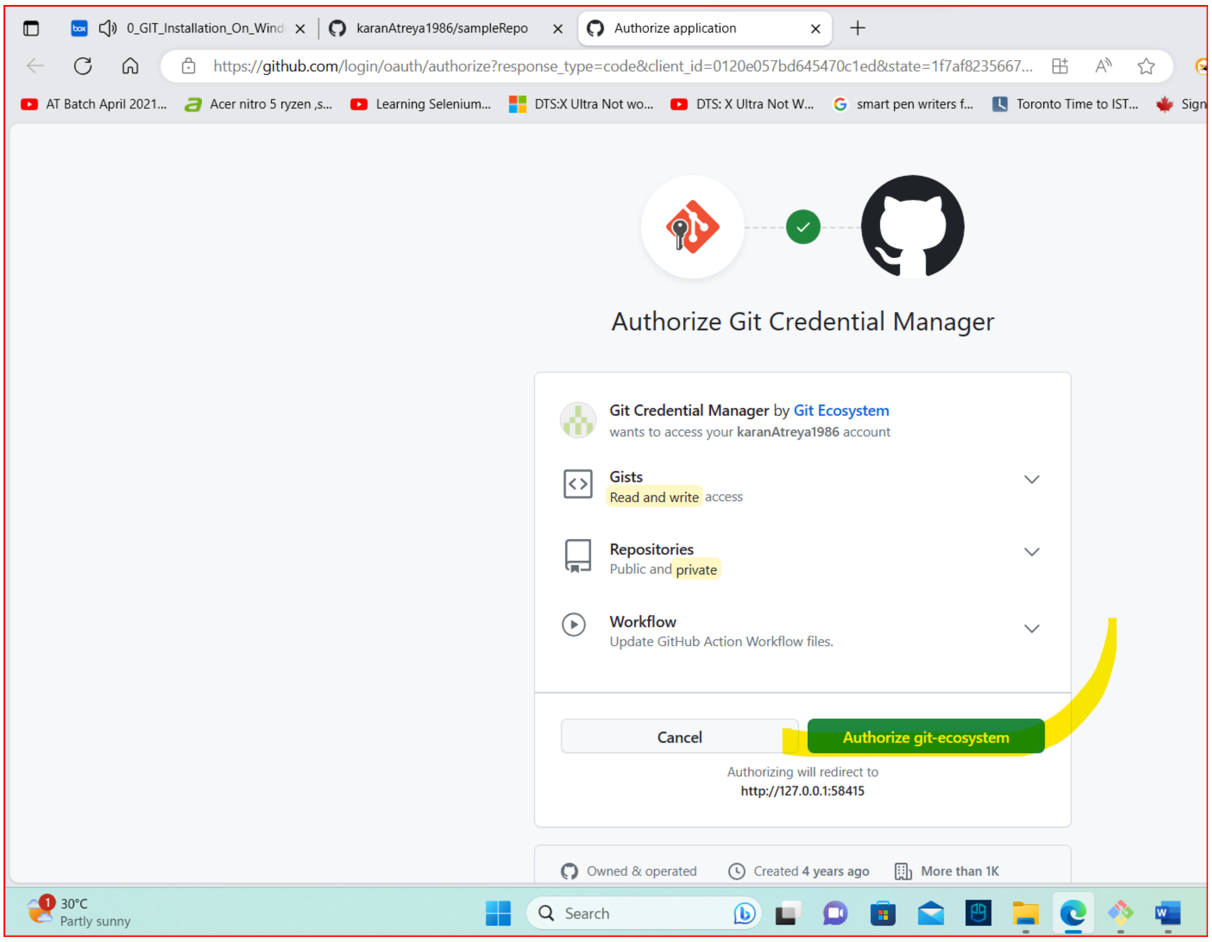
```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git config --global user.email "karan1988@gmail.com"

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ |
```

Now try to push the code-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git push origin master
```

First time we need to authenticate.



Authorize Git Credential Manager

Git Credential Manager by Git Ecosystem
wants to access your karanAtreya1986 account

Gists
Read and write access

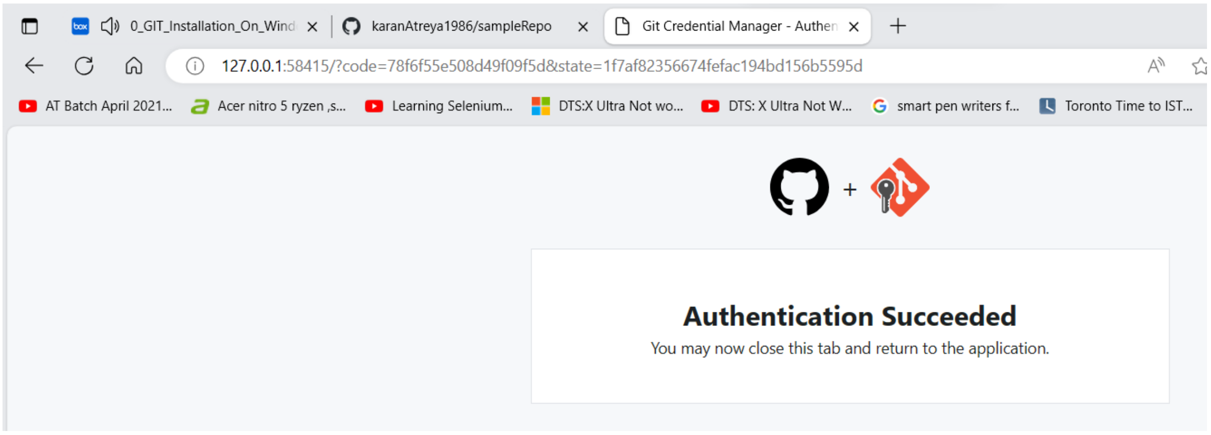
Repositories
Public and private

Workflow
Update GitHub Action Workflow files.

Cancel
Authorize git-ecosystem

Authorizing will redirect to
http://127.0.0.1:58415

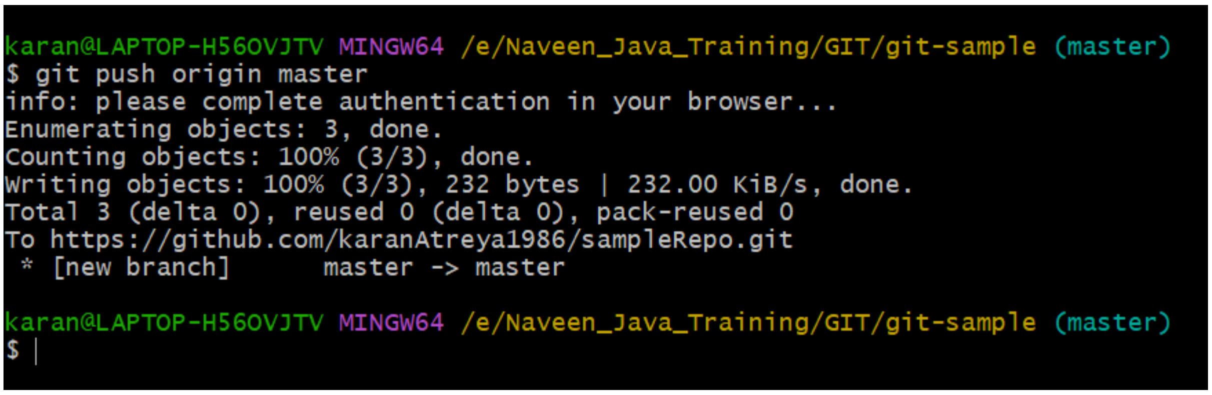
Owned & operated
Created 4 years ago
More than 1K


0_GIT_Installation_On_Wind
karanAtreya1986/sampleRepo
Git Credential Manager - Authen
127.0.0.1:58415/?code=78f6f55e508d49f09f5d&state=1f7af82356674fefac194bd156b5595d
AT Batch April 2021...
Acer nitro 5 ryzen ,s...
Learning Selenium...
DTS:X Ultra Not wo...
DTS: X Ultra Not W...
smart pen writers f...
Toronto Time to IST...

Authentication Succeeded

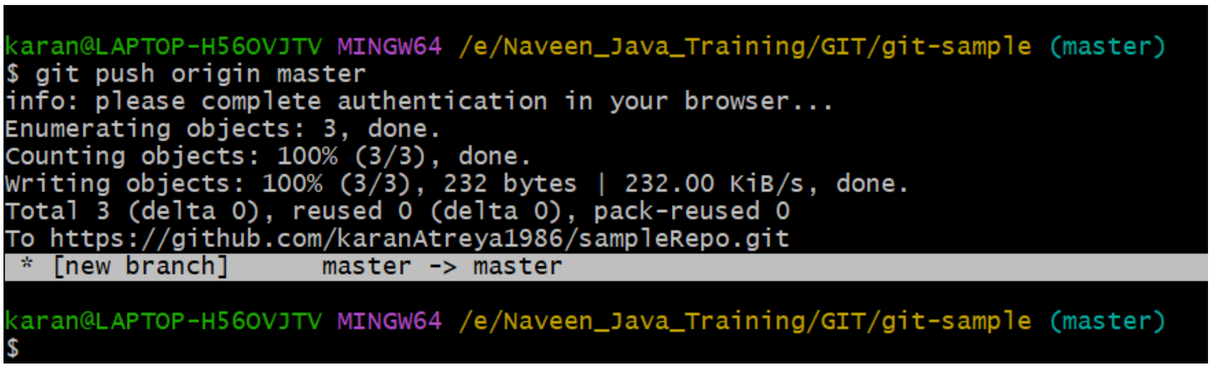
You may now close this tab and return to the application.

Code pushed-



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git push origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 232 bytes | 232.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/karanAtreya1986/sampleRepo.git
 * [new branch]      master -> master

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ |
```

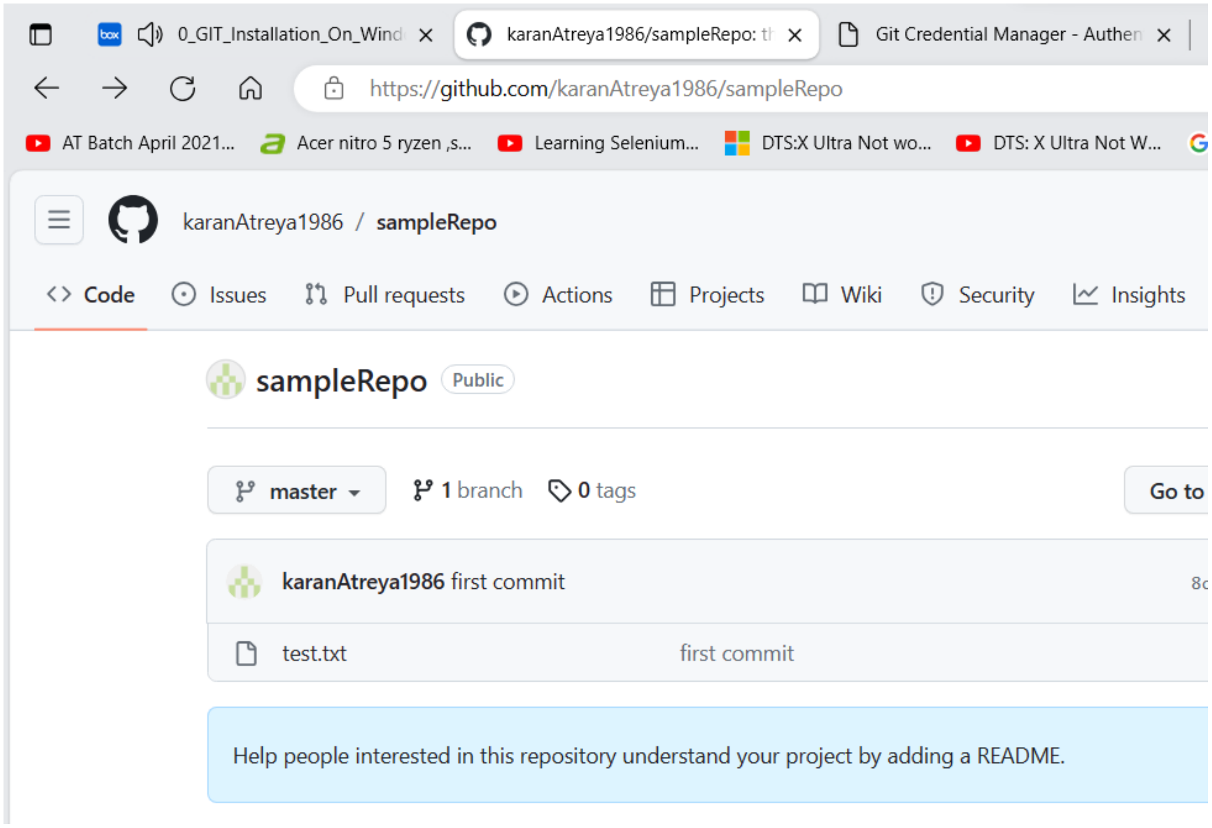
We can also see master local to master remote.



```
karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$ git push origin master
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 232 bytes | 232.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/karanAtreya1986/sampleRepo.git
 * [new branch]      master -> master

karan@LAPTOP-H56OVJTV MINGW64 /e/Naveen_Java_Training/GIT/git-sample (master)
$
```

This configuration is one time activity.

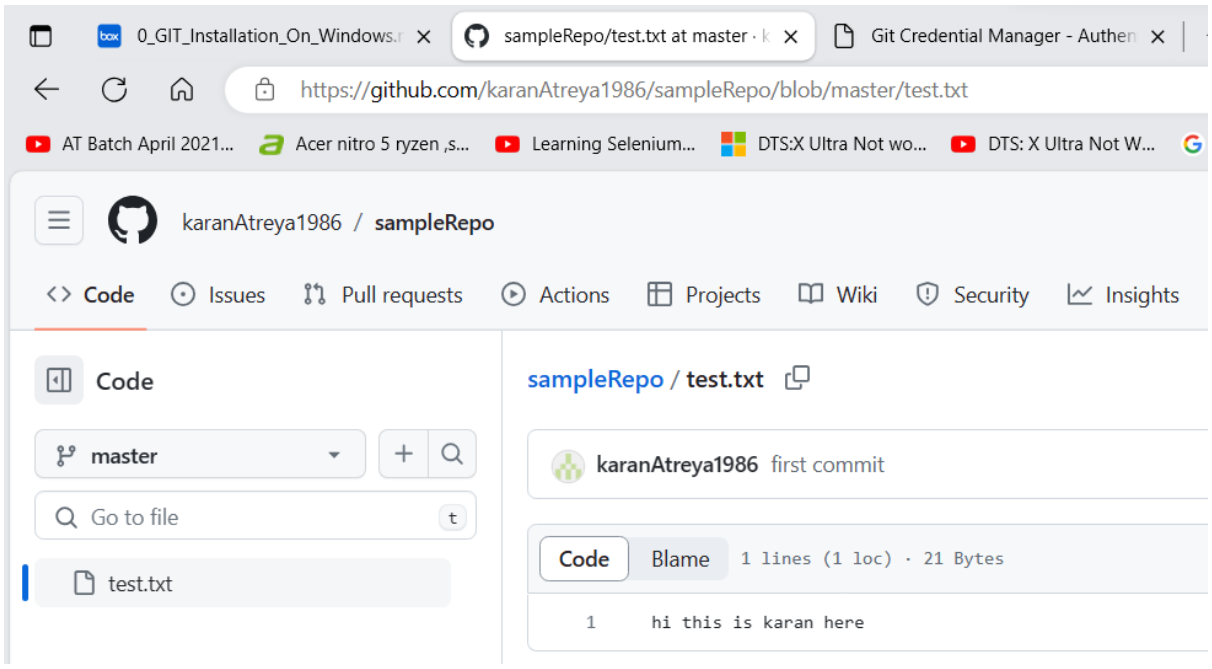
Refresh github and we can see our documents and contents-



karanAtreya1986 first commit

test.txt first commit

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


0_GIT_Installation_On_Windows.
sampleRepo/test.txt at master · k
Git Credential Manager - Authen
https://github.com/karanAtreya1986/sampleRepo/blob/master/test.txt
AT Batch April 2021...
Acer nitro 5 ryzen ,s...
Learning Selenium...
DTS:X Ultra Not wo...
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karanAtreya1986 / sampleRepo
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Code
master
Go to file
t
test.txt
sampleRepo / test.txt
karanAtreya1986 first commit
Code
Blame
1 lines (1 loc) · 21 Bytes

```
hi this is karan here
```