

Module 2: Git Assignment - 1

1. Based on what you have learn in the class, do the following steps.

Solution:-

```
$ sudo su (root user)
```

```
# apt update
```

```
ubuntu@ip-172-31-95-180:~$ sudo su
root@ip-172-31-95-180:/home/ubuntu# apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
```

```
# apt upgrade
```

```
root@ip-172-31-95-180:/home/ubuntu# apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
#
# An OpenSSL vulnerability has recently been fixed with USN-6188-1 & 6119-1:
# CVE-2023-2650: possible DoS translating ASN.1 object identifiers.
# Ensure you have updated the package to its latest version.
#
```

```
# apt install git
```

```
# git --version
```

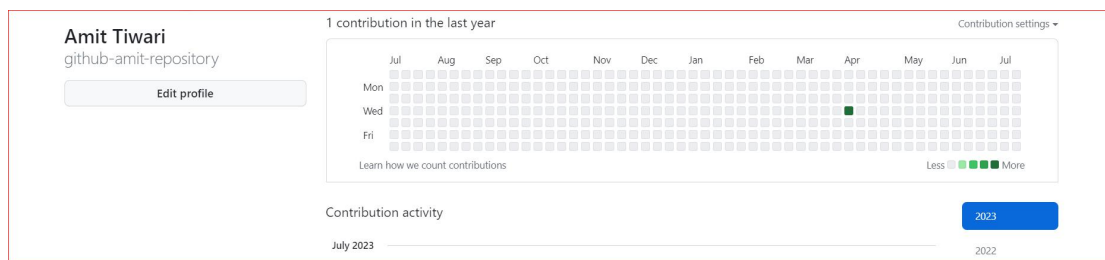
```
# which git
```

```
root@ip-172-31-95-180:/home/ubuntu# apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.9).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-95-180:/home/ubuntu# git --version
git version 2.34.1
root@ip-172-31-95-180:/home/ubuntu# which git
/usr/bin/git
```

```
# git config --global user.name "Amit Tiwari"
# git config --global user.email "redhat.amitiwari@gmail.com"
# git config --list
```

```
root@ip-172-31-95-180:/home/ubuntu# git config --global user.name "Amit Tiwari"
root@ip-172-31-95-180:/home/ubuntu# git config --global user.email "redhat.amitiwari@gmail.com"
root@ip-172-31-95-180:/home/ubuntu# git config --list
user.name=Amit Tiwari
user.email=redhat.amitiwari@gmail.com
root@ip-172-31-95-180:/home/ubuntu#
```

* Create github account



a. Create a new folder.

Solution:-

```
# mkdir gitdir
# ls
# cd gitdir
# git init
```

```
root@ip-172-31-95-180:/home/ubuntu# mkdir gitdir
root@ip-172-31-95-180:/home/ubuntu# ls
gitdir
root@ip-172-31-95-180:/home/ubuntu# cd gitdir/
root@ip-172-31-95-180:/home/ubuntu/gitdir# git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
```

```
# ls -al
```

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# ls -al
total 12
drwxr-xr-x 3 root  root  4096 Jul 15 06:42 .
drwxr-x-- 5 ubuntu ubuntu 4096 Jul 15 06:41 ..
drwxr-xr-x 7 root  root  4096 Jul 15 06:42 .git
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

b. Put the following files in the folder :-

- Code.txt
- Log.txt
- Output.txt

Solution:-

```
# touch Code.txt Log.txt Output.txt
# ls
# git status
```

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# touch Code.txt Log.txt Output.txt
root@ip-172-31-95-180:/home/ubuntu/gitdir# ls
Code.txt  Log.txt  Output.txt
root@ip-172-31-95-180:/home/ubuntu/gitdir# git status
On branch master

No commits yet

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

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

c. Stage the Code.txt and Output.txt files

Solution:-

```
# git add Code.txt Output.txt
# git status
```

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# git add Code.txt Output.txt
root@ip-172-31-95-180:/home/ubuntu/gitdir# git status
On branch master

No commits yet

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

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

root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

d. Commit them.

Solution:-

```
# git commit -m "My first commit to Code.txt Output.txt" Code.txt
Output.txt
# git status
```

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# git commit -m "My first commit to Code.txt Output.txt" Code.txt Output.txt
[master (root-commit) 837d817] My first commit to Code.txt Output.txt
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Code.txt
 create mode 100644 Output.txt
root@ip-172-31-95-180:/home/ubuntu/gitdir# git status
On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Log.txt

nothing added to commit but untracked files present (use "git add" to track)
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

```
# git log
# git show 837d81
```

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# git log
commit 837d817c946d94372382ba970f3694f8d6ddd633 (HEAD -> master)
Author: Amit Tiwari <redhat.amitiwari@gmail.com>
Date: Sat Jul 15 06:50:46 2023 +0000

    My first commit to Code.txt Output.txt
root@ip-172-31-95-180:/home/ubuntu/gitdir# git show 837d81
commit 837d817c946d94372382ba970f3694f8d6ddd633 (HEAD -> master)
Author: Amit Tiwari <redhat.amitiwari@gmail.com>
Date: Sat Jul 15 06:50:46 2023 +0000

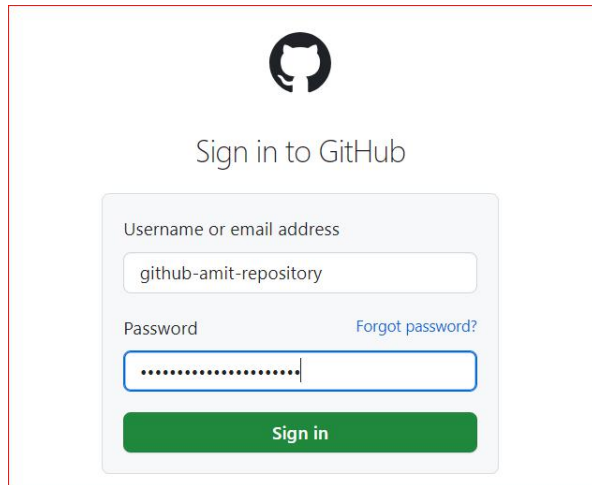
    My first commit to Code.txt Output.txt

diff --git a/Code.txt b/Code.txt
new file mode 100644
index 0000000..e69de29
diff --git a/Output.txt b/Output.txt
new file mode 100644
index 0000000..e69de29
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

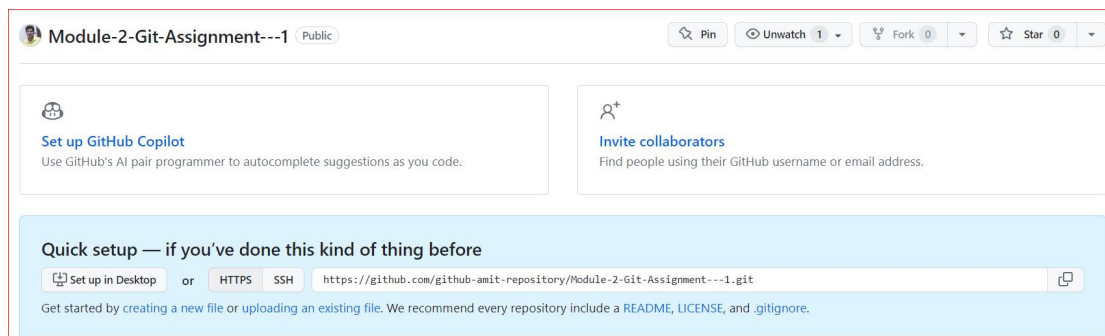
e. And finally push them to GitHub.

Solution:-

* github account login



The image shows the GitHub sign-in page. At the top is the GitHub logo and the text "Sign in to GitHub". Below this is a form with two input fields: "Username or email address" containing "github-amit-repository" and "Password" with masked characters. A "Forgot password?" link is next to the password field. A green "Sign in" button is at the bottom of the form.



The image shows a GitHub repository page for "Module-2-Git-Assignment---1". The repository is public. It features a "Set up GitHub Copilot" section, an "Invite collaborators" section, and a "Quick setup" section. The "Quick setup" section provides a URL to clone the repository: "https://github.com/github-amit-repository/Module-2-Git-Assignment---1.git".

git remote add origin "https://github.com/github-amit-repository/Module-2-Git-Assignment---1.git"

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# git remote add origin "https://github.com/github-amit-repository/Module-2-Git-Assignment---1.git"
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```

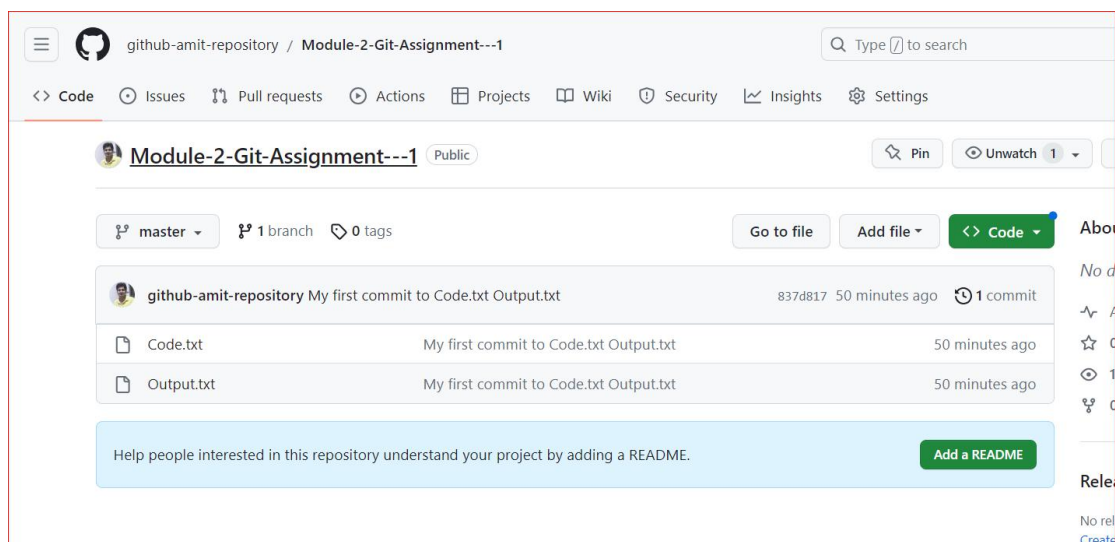


```
# git push origin master
```

O/p:- Username: Give github username

O/p:- Password: Give github password (Create token in developer setting and paste here.)

```
root@ip-172-31-95-180:/home/ubuntu/gitdir# git push origin master
Username for 'https://github.com': github-amit-repository
Password for 'https://github-amit-repository@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 244 bytes | 244.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/github-amit-repository/Module-2-Git-Assignment---1.git
 * [new branch]      master -> master
root@ip-172-31-95-180:/home/ubuntu/gitdir#
```



2. Please share the commands with their working for the above points.

Solution:-

```
$ sudo su (root user)
```

```
# apt update
```

```
# apt upgrade
```

```
# apt install git
```

```
# git --version
```

```
# which git
```

```
# git config --global user.name "Amit Tiwari"
```

```
# git config --global user.email "redhat.amitiwari@gmail.com"
```

```
# git config --list
```

```
# mkdir gitdir
# ls
# cd gitdir
# git init
# ls -al
# touch Code.txt Log.txt Output.txt
# ls
# git status
# git add Code.txt Output.txt
# git status
# git commit -m "My first commit to Code.txt Output.txt" Code.txt
Output.txt
# git status
# git log
# git show 837d81
# git remote add origin "https://github.com/github-amit-
repository/Module-2-Git-Assignment---1.git"
# git push origin master
```