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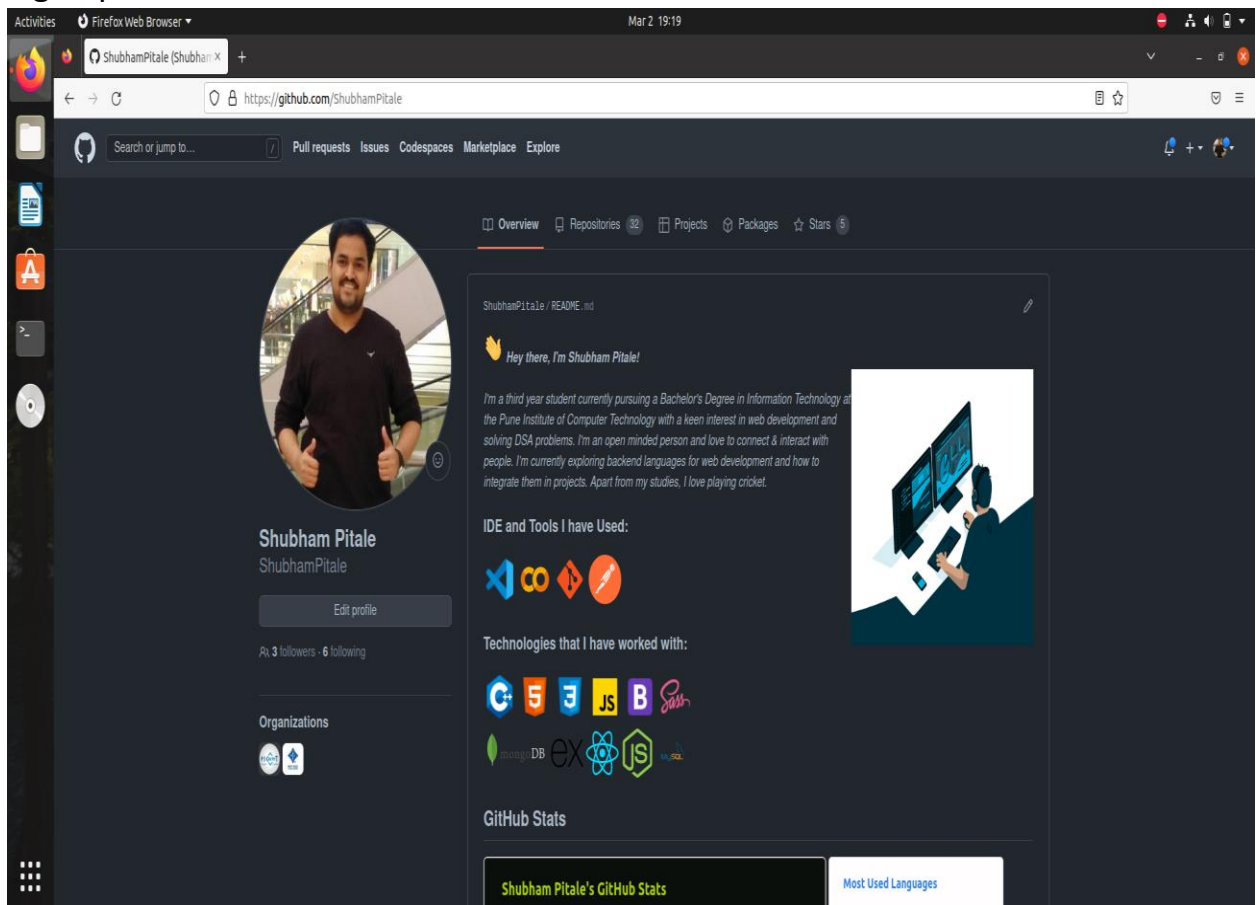
Class: TE 11

Batch: M 11

Assignment: 2a

Steps:

## 1. Sign up for a GitHub account



## 2. Install Git

```
Activities Terminal Mar 2 22:51 shubham@Ubuntu: ~

shubham@Ubuntu:~$ sudo apt-get update
[sudo] password for shubham:
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
shubham@Ubuntu:~$ sudo apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  git-man liberror-perl
Suggested packages:
  git-daemon-run | git-daemon-sysvinit git-doc git-email git-gui gitk gitweb git-cvs git-mediawiki git-svn
The following NEW packages will be installed:
  git git-man liberror-perl
0 upgraded, 3 newly installed, 0 to remove and 63 not upgraded.
Need to get 4,121 kB of archives.
After this operation, 20.9 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 liberror-perl all 0.17029-1 [26.5 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git-man all 1:2.34.1-1ubuntu1.8 [953 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy-updates/main amd64 git amd64 1:2.34.1-1ubuntu1.8 [3,141 kB]
Fetched 4,121 kB in 7s (620 kB/s)
Selecting previously unselected package liberror-perl.
(Reading database ... 203636 files and directories currently installed.)
Preparing to unpack .../liberror-perl_0.17029-1_all.deb ...
Unpacking liberror-perl (0.17029-1) ...
Selecting previously unselected package git-man.
Preparing to unpack .../git-man_1k3a2.34.1-1ubuntu1.8_all.deb ...
Unpacking git-man (1:2.34.1-1ubuntu1.8) ...
Selecting previously unselected package git.
Preparing to unpack .../git_1k3a2.34.1-1ubuntu1.8_and64.deb ...
Unpacking git (1:2.34.1-1ubuntu1.8) ...
Setting up liberror-perl (0.17029-1) ...
Setting up git-man (1:2.34.1-1ubuntu1.8) ...
Setting up git (1:2.34.1-1ubuntu1.8) ...
Processing triggers for man-db (2.10.2-1) ...
shubham@Ubuntu:~$ git --version
git version 2.34.1
shubham@Ubuntu:~$ git config --global user.name "Shubham Pitale"
shubham@Ubuntu:~$ git config --global user.email "shubhampitale44@gmail.com"
shubham@Ubuntu:~$
```

### 3. Create a new repository

The screenshot shows a web browser window with the URL `https://github.com/ShubhamPitale/DemoAssign2a`. The page header includes the GitHub logo, a search bar, and navigation links for Pull requests, Issues, Codespaces, Marketplace, and Explore. A notification banner at the top states "Mockend was installed on this repository". The repository name "ShubhamPitale / DemoAssign2a" is displayed with a "Private" label. Below the repository name, there are tabs for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. The main content area shows a "Quick setup" section with instructions for cloning the repository using HTTPS or SSH. It also provides a command-line setup for creating a new repository, including commands for initializing git, adding files, committing, creating a branch, adding a remote, and pushing. The commands are as follows:

```
or HTTPS SSH https://github.com/ShubhamPitale/DemoAssign2a.git

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

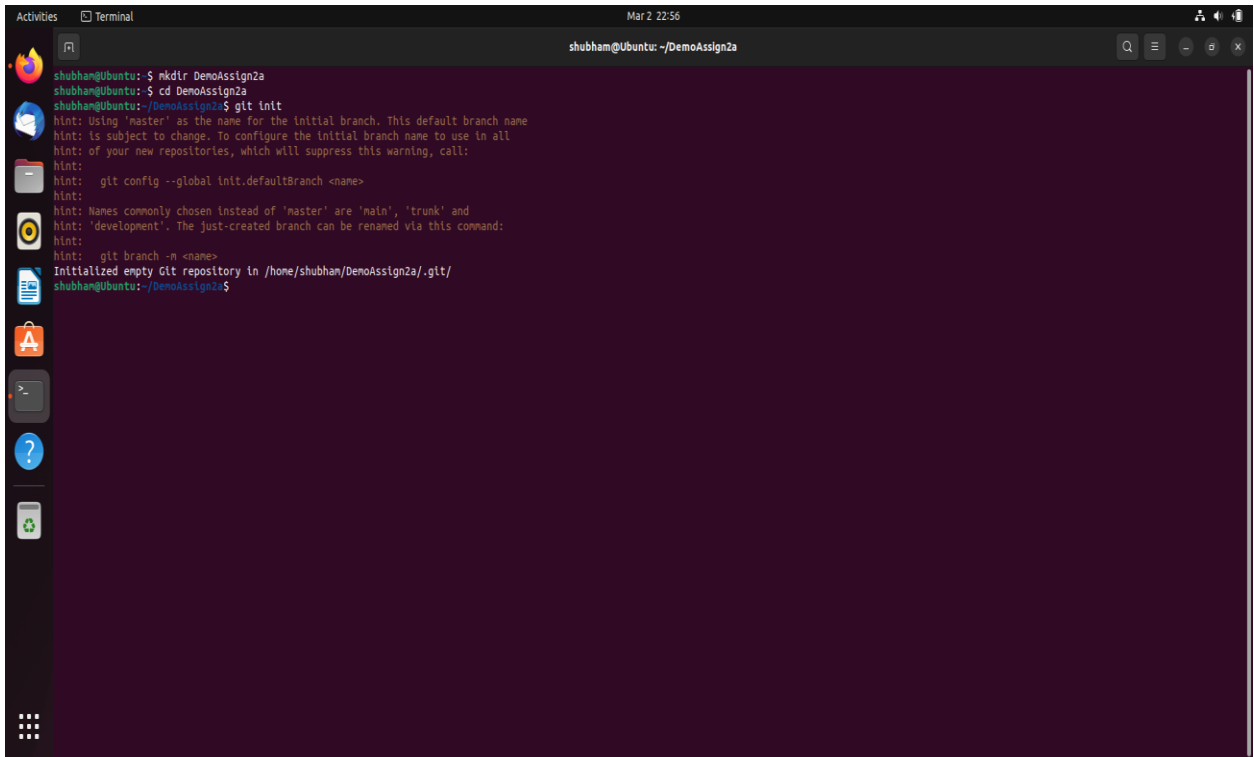
...or create a new repository on the command line

echo "# DemoAssign2a" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/ShubhamPitale/DemoAssign2a.git
git push -u origin main

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

git remote add origin https://github.com/ShubhamPitale/DemoAssign2a.git
git branch -M main
git push -u origin main
```

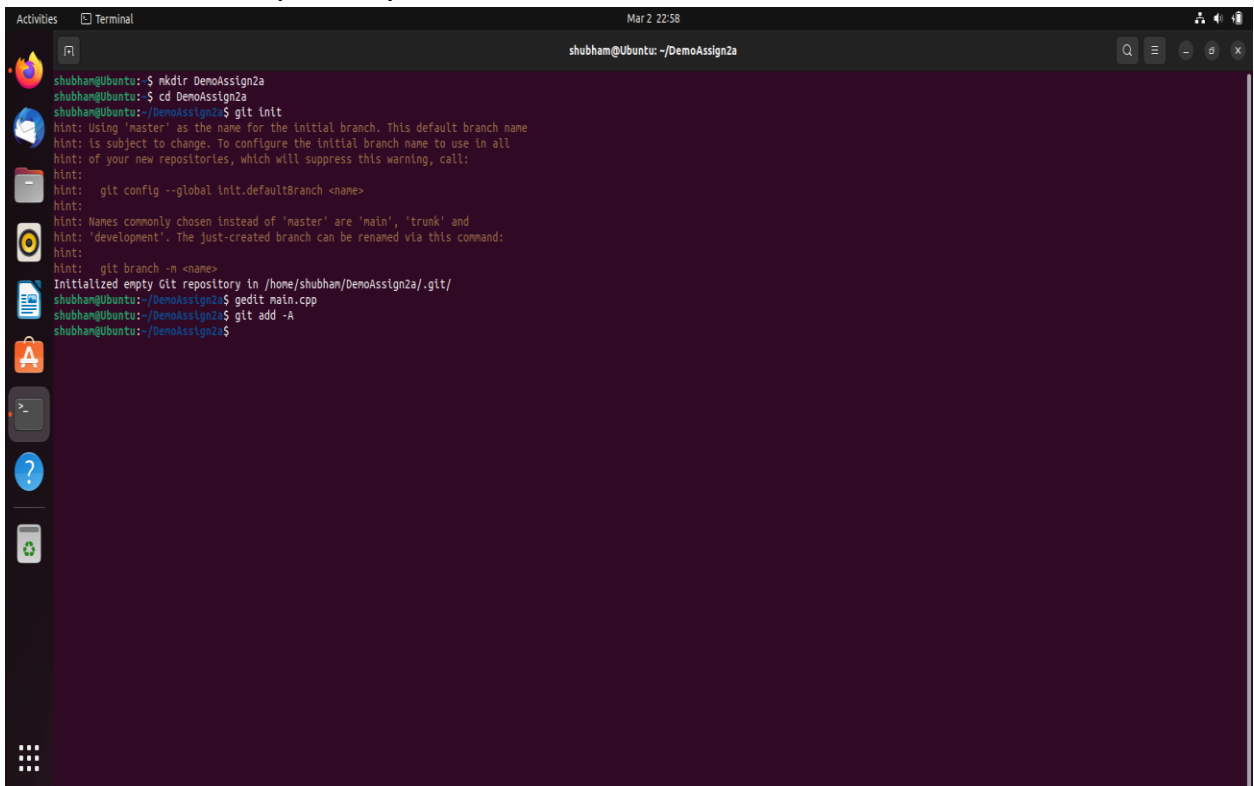
#### 4. Initialize a Git repository



A terminal window titled "shubham@Ubuntu: ~/DemoAssign2a" showing the steps to initialize a Git repository. The user creates a directory, changes to it, and runs 'git init'. The terminal displays several hints from Git, including the default branch name and configuration options. The process concludes with the message "Initialized empty Git repository in /home/shubham/DemoAssign2a/.git/".

```
shubham@Ubuntu: $ mkdir DemoAssign2a
shubham@Ubuntu: $ cd DemoAssign2a
shubham@Ubuntu: ~/DemoAssign2a$ 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:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/shubham/DemoAssign2a/.git/
shubham@Ubuntu: ~/DemoAssign2a$
```

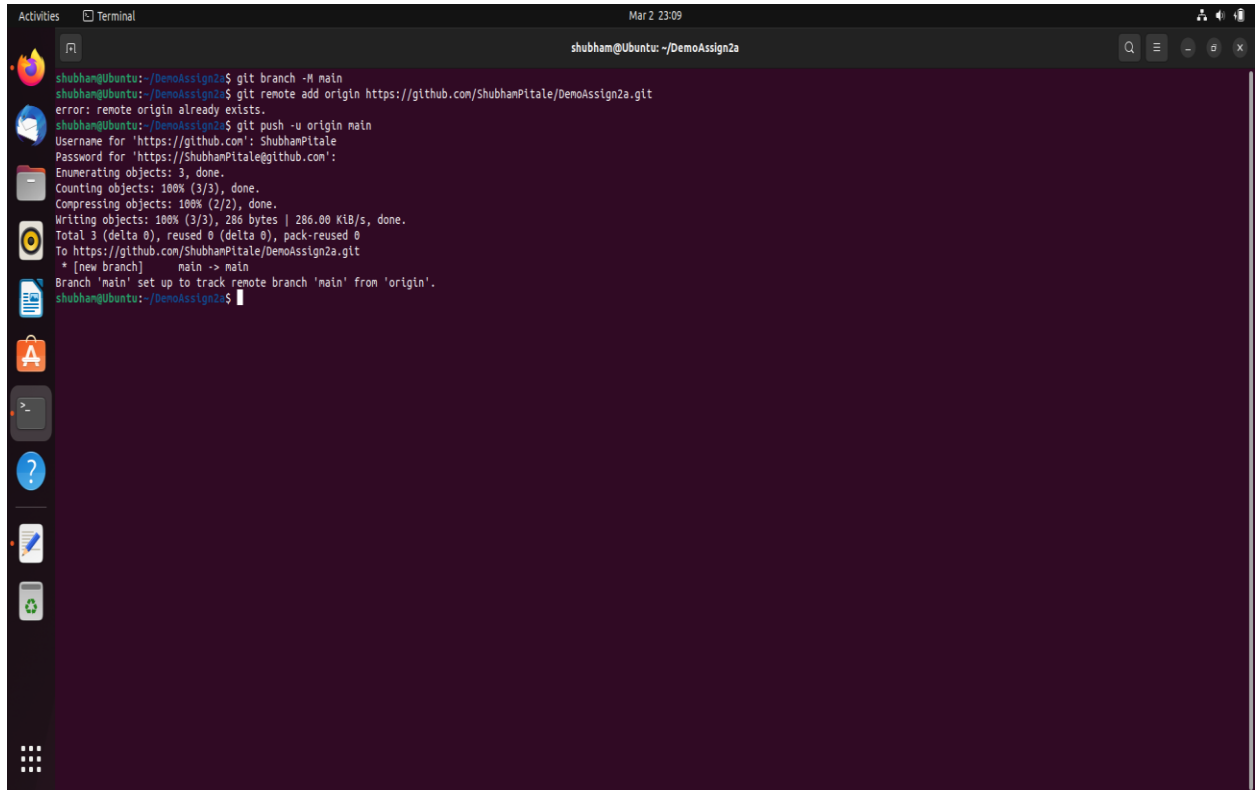
#### 5. Add files to the repository



A terminal window titled "shubham@Ubuntu: ~/DemoAssign2a" showing the next steps in setting up the repository. The user creates a file named 'main.cpp' using 'gedit' and then adds it to the repository with 'git add -A'. The terminal shows the same initialization hints as the previous screenshot, followed by the successful addition of the file.

```
shubham@Ubuntu: $ mkdir DemoAssign2a
shubham@Ubuntu: $ cd DemoAssign2a
shubham@Ubuntu: ~/DemoAssign2a$ 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:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/shubham/DemoAssign2a/.git/
shubham@Ubuntu: ~/DemoAssign2a$ gedit main.cpp
shubham@Ubuntu: ~/DemoAssign2a$ git add -A
shubham@Ubuntu: ~/DemoAssign2a$
```

6. Commit changes
7. Link your local repository to GitHub repository
8. Push Changes to GitHub



```
shubham@Ubuntu: ~/DemoAssign2a
shubham@Ubuntu:~/DemoAssign2a$ git branch -M main
shubham@Ubuntu:~/DemoAssign2a$ git remote add origin https://github.com/ShubhamPitale/DemoAssign2a.git
error: remote origin already exists.
shubham@Ubuntu:~/DemoAssign2a$ git push -u origin main
Username for 'https://github.com': ShubhamPitale
Password for 'https://shubhampitale@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 286 bytes | 286.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ShubhamPitale/DemoAssign2a.git
 * [new branch]    main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
shubham@Ubuntu:~/DemoAssign2a$
```

