Lesson 01 Demo 02

Various Git Commands

Objective: To run various Git commands

Tools required: Terminal

Prerequisites: Git

Steps to be followed:

1. Run various Git commands in the repository
2. Install GitHub CLI

Step 1: Run various Git commands in the repository

1.1 Go to the terminal and enter the given command to view the details of the author:

git config --list

```
srijanighataksi@ip-172-31-27-104:~$ git config --list
user.name=tuser6794
user.email=tuser6794@gmail.com
credential.https://github.com.helper=
credential.https://github.com.helper=!/usr/bin/gh auth git-credential
credential.https://gist.github.com.helper=
credential.https://gist.github.com.helper=!/usr/bin/gh auth git-credential
srijanighataksi@ip-172-31-27-104:~$
```

1.2 Enter the given commands to create a new author:

git config --global user.name “user_name”
git config --global user.email “user_email_id”

```
srijanighataksi@ip-172-31-27-104:~$ git config --global user.name "tuser6794"
srijanighataksi@ip-172-31-27-104:~$
```

```
srijanighataksi@ip-172-31-27-104:~$ git config --global user.email "tuser6794@gm
ail.com"
srijanighataksi@ip-172-31-27-104:~$
```

Note: Replace the user_name and user_email_id variables with the username and email ID from the GitHub account

1.3 Now, go to the Documents directory and view the files under it using the given commands:

cd Documents/

```
srijanighataksi@ip-172-31-27-104:~$ cd Documents/
srijanighataksi@ip-172-31-27-104:~/Documents$ ls
JavaScriptDemos  MyWebApp  estore
```

1.4 Create a new directory with the name **FoodDeliveryApp** and view it using the given command:

mkdir FoodDeliveryApp

```
srijanighataksi@ip-172-31-27-104:~/Documents$ mkdir FoodDeliveryWebApp
srijanighataksi@ip-172-31-27-104:~/Documents$ ls
FoodDeliveryWebApp  JavaScriptDemos  MyWebApp  estore
srijanighataksi@ip-172-31-27-104:~/Documents$
```

1.5 Go to the FoodDeliveryApp directory and use the following command to initialize a new git repository:

cd FoodDeliveryApp/

git init

```
srijanighataksi@ip-172-31-27-104:~/Documents$ cd FoodDeliveryWebApp/
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ ls
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git status
fatal: not a git repository (or any of the parent directories): .git
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git init
Initialized empty Git repository in /home/srijanighataksi/Documents/FoodDelivery
WebApp/.git/
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$
```

1.6 Check the status using the given command:

git status

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$
```

1.7 Create an empty file to commit changes on it using the given command:

touch index.html

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ touch index.htm
l
```

Note: Create multiple files using the touch command

1.8 Add the file using the given command:

git add index.html

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git add index.h
tml
```

1.9 Use the given command to add multiple files:

git add -A

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git add -A
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$
```

1.10 Enter the given command to commit the changes:

git commit -m “Initial Commit”

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git commit -m "
Initial Commit"
[master (root-commit) 615ba16] Initial Commit
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html
 create mode 100644 restaurants.html
```

1.11 Open the **index.html** file in **Visual Studio**, enter the given sample code, and save it:

```
<!DOCTYPE html>
<html>
<head>
<title> Foodie <title>
</head>
<body>
<h3> welcome to food delivery app</h3>
</body>
</html>
```

1.12 Add the changes using the given command and commit it as shown:

git add

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git add .
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git commit -m "
index web page created"
[master 464dba9] index web page created
 1 file changed, 9 insertions(+)
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$
```

1.13 Enter the command given to check the commit logs:

git log

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git log
commit 464dba98d08e4c1fbea48ec12c1b5e8cc86daba6 (HEAD -> master)
Author: tuser6794 <tuser6794@gmail.com>
Date:   Fri Jul 1 14:21:24 2022 +0000

    index web page created

commit 615ba16eeadaf02ba9ea91f2cc11137aab954a83
Author: tuser6794 <tuser6794@gmail.com>
Date:   Fri Jul 1 14:18:56 2022 +0000

    Initial Commit
```

1.14 Create a feature branch using the given command:

git checkout -b feature

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git branch
* master
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ git checkout -b
 feature
Switched to a new branch 'feature'
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$
```

1.15 Now, clone a sample repository using the given command:

git clone https://github.com/tuser6794/estore-end-user.git

```
srijanighataksi@ip-172-31-27-104:~/Documents/FoodDeliveryWebApp$ cd ..
srijanighataksi@ip-172-31-27-104:~/Documents$ git clone https://github.com/tuser
6794/estore-end-user.git
Cloning into 'estore-end-user'...
remote: Enumerating objects: 103, done.
remote: Counting objects: 100% (103/103), done.
remote: Compressing objects: 100% (82/82), done.
remote: Total 103 (delta 24), reused 90 (delta 17), pack-reused 0
Receiving objects: 100% (103/103), 215.84 KiB | 21.58 MiB/s, done.
Resolving deltas: 100% (24/24), done.
srijanighataksi@ip-172-31-27-104:~/Documents$
```

Step 2: Install GitHub CLI

2.1 Run the command given to install GitHub CLI:

type -p curl >/dev/null || (sudo apt update && sudo apt install curl -y)
**curl -fsSL https://cli.github.com/packages/githubcli-archive-keyring.gpg | sudo dd of=/usr/share/keyrings/githubcli-archive-keyring.gpg **
**&& sudo chmod go+r /usr/share/keyrings/githubcli-archive-keyring.gpg **
**&& echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/githubcli-archive-keyring.gpg] https://cli.github.com/packages stable main" | sudo tee /etc/apt/sources.list.d/github-cli.list > /dev/null **
**&& sudo apt update **
&& sudo apt install gh -y

2.2 Enter the given command to authenticate with the GitHub host:

gh auth login

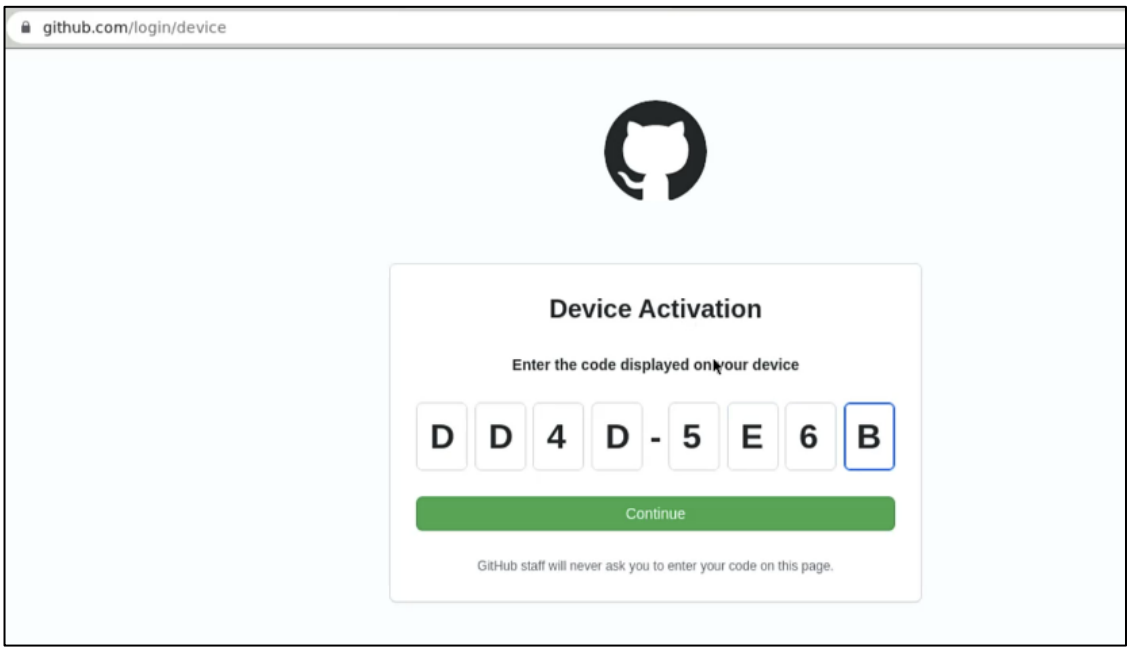
```
srijanighataksi@ip-172-31-27-104:~$ gh auth login
? What account do you want to log into?  [Use arrows to move, type to filter]
> GitHub.com
  GitHub Enterprise Server
```

2.3 For the given queries, click on the **enter** button to select yes

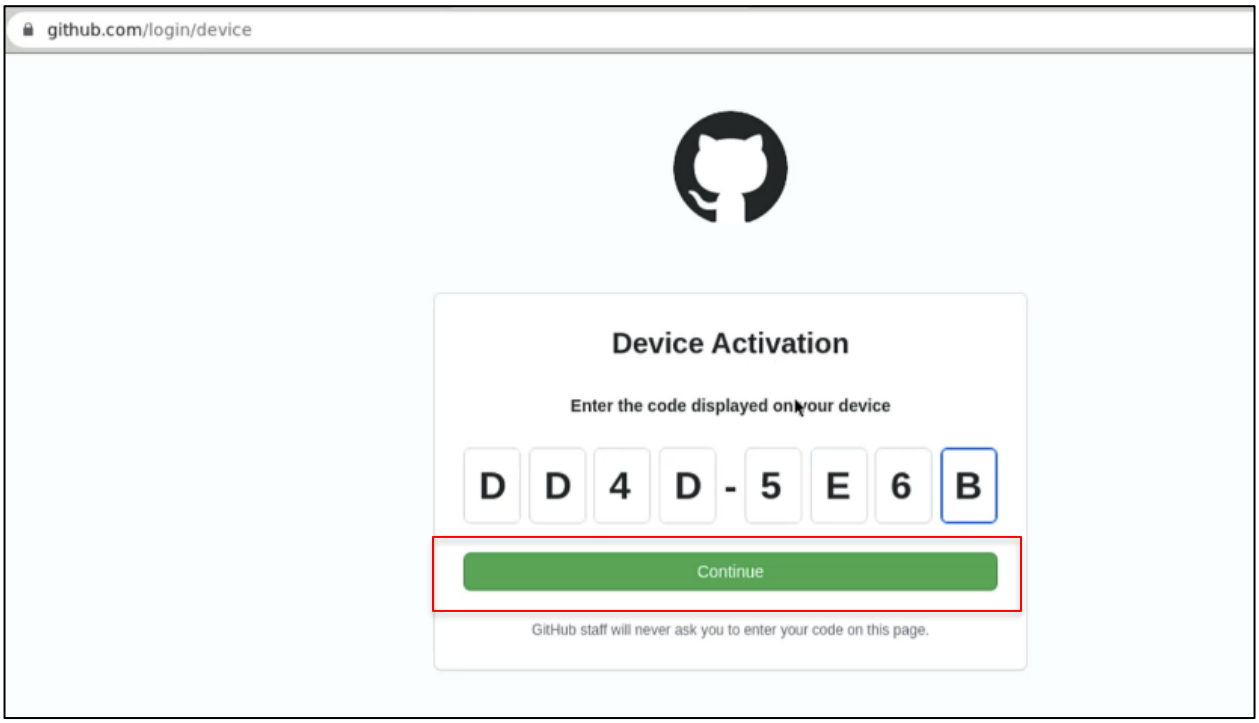
```
? What account do you want to log into? GitHub.com
? What is your preferred protocol for Git operations? HTTPS
? Authenticate Git with your GitHub credentials? Yes
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: DD4D-5E6B
Press Enter to open github.com in your browser...
```

2.4 Copy the generated code, go to the GitHub page, and paste it in the code field to complete the authentication process

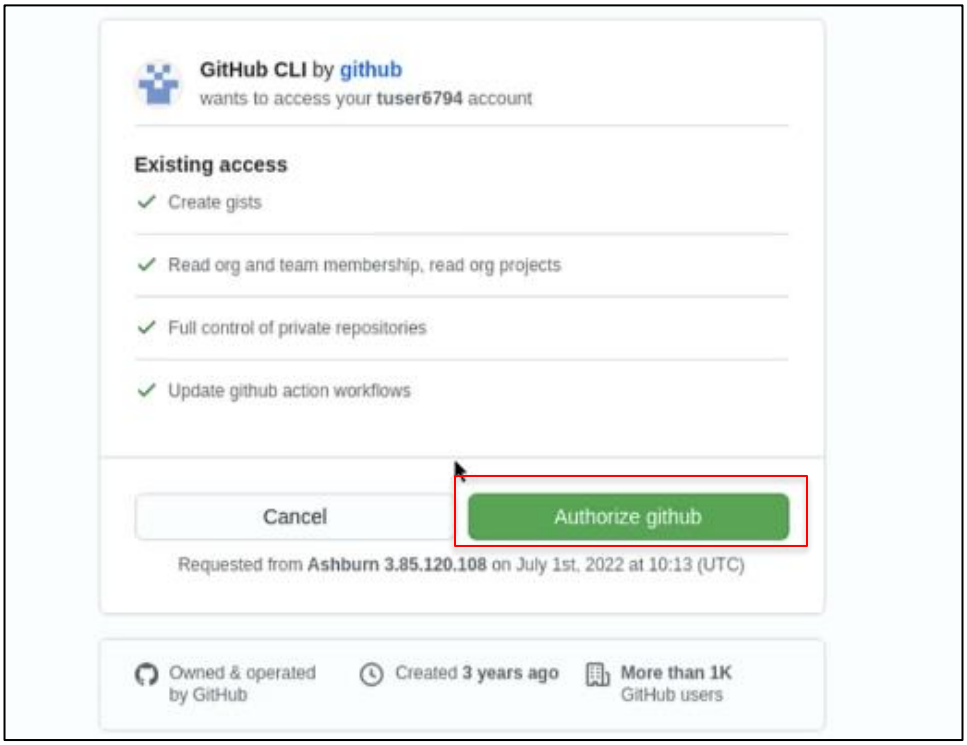
```
? What account do you want to log into? GitHub.com
? What is your preferred protocol for Git operations? HTTPS
? Authenticate Git with your GitHub credentials? Yes
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: DD4D-5E6B
Press Enter to open github.com in your browser...
```



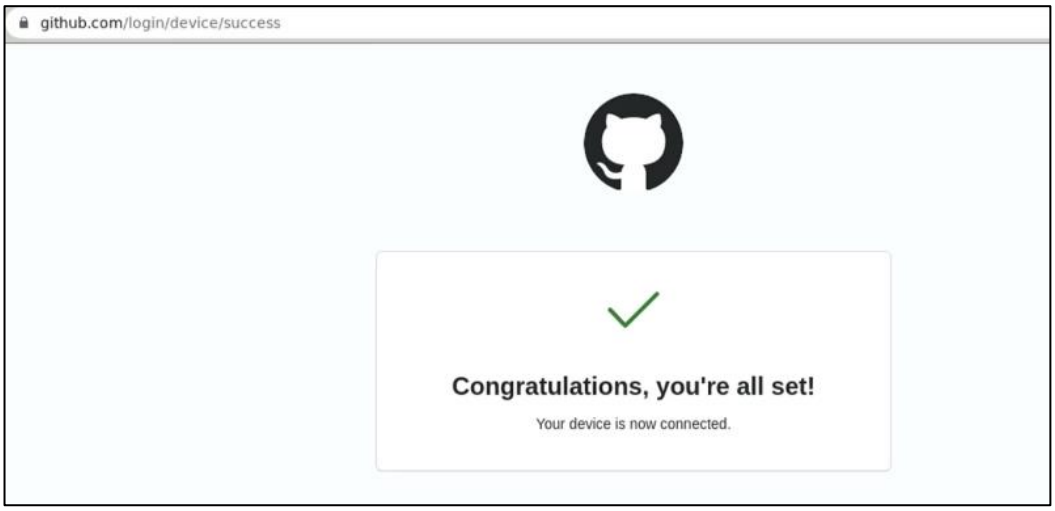
2.5 Now, click on the **Continue** button



2.6 Click on the **Authorize GitHub** button



2.7 The final output in the GitHub account and in the terminal will be as shown:




```
✓ Authentication complete.
- gh config set -h github.com git_protocol https
✓ Configured git protocol
✓ Logged in as tuser6794
```