Initial Repository Setup

Requirements

Softwares: **python**, **git**, **wget**, **neovim**, **nodejs** and **virtualenv**

Create a GitHub account

Login into GitHub

Create a new repository

- name: **project1**
- type: **Public**

Create an access token

account > settings > Developer settings > Personal access tokens > Tokens (classic) > Create a new token > Generate new token (classic) > Generate Token

New token:
note: **project1**
expiration: **90 days**
select scope: [ ] **repo**

copy and save the token somewhere

Create directory

```
mkdir samples
```

Navigate to the directory

```
cd samples
```

Clone the git repository

```
git clone https://github.com/kumar-student/project1.git
```

This will create a folder project1 and copy the files from the repository into that file.

Navigate to the repository directory

```
cd project1
```

Configure the git

Note: check if you are present in colend project directory by running command **pwd** here **project1** is the project directory

```
git config user.name "user"
git config user.email "example@gmail.com"
```

These git cofig settings are repository specific.

Create virtual environment

```
virtualenv .env -p python3
```

Activate the virtual environment

```
source .env/bin/activate
```

Write a sample code

Creating a file

```
touch welcome.py
```

Opening a file with neovim editor

```
nvim welcome.py
```

i - for insert mode

```
# welcome.py
def say(s):
```

```
        print(s)
say()
```

ESC
:wq

w - stands or Write
q - stands for Quit

Execute the code

```
python3 welcome.py
```

Steps to push code

code -> Staging area -> Local repo -> GitHub repo

Check the status

Shows tracked and untracked files

```
git status
```

Place code into staging area

```
git add welcome.py
```

```
git status
```

This shows welcome.py file as tracked

Commit the tracked files places the changes into local repo

```
git commit -m "Say hello function"
```

Push commited changes to onlie repository(GitHub)

```
git push origin main
```

When you push the code you will be asked for **username** and **password**

- You can enter your **account username** or **email** for username without quotes
- Give **access token** for password without quotes

To know your current branch

```
git branch
```