Create a Git Project and Push/Pull on Ubuntu

☐ Step 1: Install Git (if not installed)

Installing Git on Windows

- 1. Go to the official Git website: https://git-scm.com/downloads
- 2. Click **Download for Windows**.
- 3. Run the downloaded installer file.
- 4. Git for Windows/x64 Setup.
- 5. Once installed, open **Command Prompt** or **Git Bash** and type:

Installing Git on Ubuntu / Linux

Open the terminal and run:

```
sudo apt update
sudo apt install git -y
qit --version
```

☐ Step 2: Create a Repository on GitHub

- 1. Go to https://github.com and log in.
- 2. Click "New Repository".
- 3. Enter repository name (example: git documentation).
- 4. Keep it **public** (or private if you prefer).
- 5. Click Create Repository.
- 6. Copy the **HTTPS URL** (something like:

```
https://github.com/username/my-git-project.git)
```

\square Step 3: Configure Git (one-time setup)

```
Open Command Prompt or Git Bash git config --global user.name "Your Name" git config --global user.email "you@example.com"
```

You can verify settings:

```
git config -list
```

Step 4: Initialize Git Repository

```
git init
```

This command creates a new **.git** folder — it means Git is now tracking this directory.

Step 5: Git Clone

```
git clone ...( Repository Code )
ls
cd git documentation
ls
git init
```

Step 6: Create a File and Add Content

```
touch git.txt
echo "This is my first Git project" > git.txt
cat git.txt
git status
```

Step 7: Stage the File

```
git add git.txt
```

Step 8: Commit the File

```
git commit -m "this is update file"
git status
git log
git branch
git branch master
git branch
```

Steps 09: Create a GitHub Personal Access Token (PAT)

☐ Step 1: Log in to GitHub

Go to \square <u>https://github.com</u> and **sign in** to your account.

☐ Step 2: Go to Developer Settings

	Click on your profile picture (top-right corner). Select Settings from the dropdown.
	On the left sidebar, scroll down and click Developer settings .
	ep 3: Choose "Personal Access Tokens"
	Under Developer settings , click Personal access tokens . Choose Tokens (classic) or Fine-grained tokens (recommended).
	ep 4: Create a New Token
•	Click "Generate new token" → "Generate new token (classic)". You'll be asked to re-enter your password.
	ep 5: Configure Token Details
Fill th	e form:
•	Note: Write something like Ubuntu Git Project Access Expiration: Choose expiration period (e.g., 90 days or custom). Scopes: Select permissions based on your need: ◇Recommended for push/pull: ○ repo → (Full control of private repositories) ○ read:org → (Optional) ○ workflow → (Optional for CI/CD use)
Then click "Generate token".	
	ep 6: Copy and Save Your Token
_	portant: Copy the token immediately after it's created — GitHub won't show it again. ple token format:
ghp A	.lb2C3d4E5f6G7h8I9j0K1l2M3n4O5p6Q7r8

Save it securely (e.g., in a password manager or text file).

† Step 10: Push Code to GitHub

```
git push .....( URL of clone code )
```

You'll be prompted for your GitHub credentials or personal access token.

↓ Step 11: Pull Updates (if any changes on GitHub)

If you or someone else made updates on GitHub, pull them:

```
git pull origin main
```

\lozenge Result:

You've successfully created a **Git project**, **pushed** it to GitHub, and learned how to **pull** updates back.