

GIT & GITHUB – NEW PROJECT WORKFLOW (BEGINNER FRIENDLY)

● PART 1: STEPS YOU WILL FOLLOW EVERY TIME

◆ STEP 0: Before You Start (ONE TIME ONLY)

- ✓ Git installed
- ✓ GitHub account ready

You've already done this 

◆ STEP 1: Create a Project Folder (Local)

Create a normal folder anywhere on your PC.

Example:

DSA

Put your files inside it:

sum.c

reverse.c

◆ STEP 2: Open Terminal in That Folder

- 👉 Right-click inside the folder
 - 👉 Open Git Bash here (or PowerShell)
-

◆ STEP 3: Initialize Git

git init

📌 What this does:

Turns your normal folder into a **Git-tracked project**
(Creates a hidden .git folder)

◆ STEP 4: Check File Status

git status

What this does:

Shows:

- untracked files
 - modified files
 - commit status
-

◆ STEP 5: Add Files to Staging

git add .

Meaning of .

Adds **ALL files** in the folder to staging.

◆ STEP 6: Commit Your Files

git commit -m "Initial commit"

What this does:

Saves a **snapshot** of your project locally.

◆ STEP 7: Create GitHub Repository

On github.com:

1. Click + → **New repository**
 2. Repo name (same as folder recommended)
 3.  Don't add README
 4. Click **Create repository**
-

◆ STEP 8: Connect Local Folder to GitHub

```
git remote add origin https://github.com/USERNAME/REPO_NAME.git
```

📌 **What this does:**

Links your local project to GitHub.

Check connection:

```
git remote -v
```

◆ **STEP 9: Push Code to GitHub (FIRST TIME)**

```
git branch -M main
```

```
git push -u origin main
```

📌 **What this does:**

Uploads your project to GitHub

-u remembers the branch for future pushes.

🎉 Your project is now live on GitHub!

⌚ **DAILY WORK (MOST IMPORTANT PART)**

Whenever you change or add files:

```
git pull
```

```
git add .
```

```
git commit -m "describe your change"
```

```
git push
```

📌 **Why this order?**

- git pull → avoids errors
 - git add → stages changes
 - git commit → saves version
 - git push → uploads to GitHub
-

OPTIONAL BUT PROFESSIONAL: .gitignore

Create .gitignore file:

notepad .gitignore

Add:

*.exe

*.out

What this does:

Prevents useless compiled files from going to GitHub.