



WELCOME TO PAPALI PR SAHU'S FUN GIT & GITHUB GUIDE!

Let's Learn Like Explorers! 🚀

What is Git? ✨

Imagine Git as a **magic notebook** that remembers *every change* you make to your project. If you make a mistake, Git helps you go back in time to fix it.

Example:

You're drawing a superhero. Git saves every pencil stroke, so you can undo a messy line or bring back a cool cape design!

What is GitHub? ☁

GitHub is like a **cloud treasure chest** where you can store your Git projects. You can share your treasure (code) with friends and work together!

Example:

You and your friends build a LEGO castle. GitHub lets everyone add their own blocks, even from different houses!

Installation & Setup 🔧

Step 1: Download Git

- For Windows: [Git for Windows](#)
- For Mac: [Git for Mac](#)

Step 2: Tell Git Who You Are

bash

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```
git config --global user.name "PAPALI PR SAHU"
git config --global user.email "papali@example.com"
```

(This is like signing your artwork!)

Let's Start Coding! 🖥️

Flow Diagram 1: Create Your First Project

graph TD

A[Open Folder] --> B[Type 'git init']

B --> C[Add Files: git add .]

C --> D[Save Changes: git commit -m 'First drawing!']

Try It!

1. Create a folder named my_project.
2. Right-click → "Git Bash Here".
3. Run:

bash

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```
git init
echo "Hello Class 6!" > story.txt
git add .
git commit -m "My first commit!"
```

Basic Commands Made Easy! 🎮

Command	What It Does	Example
git init	Starts a new project	git init
git add	Adds files to a "staging area"	git add story.txt
git commit	Saves a snapshot	git commit -m "Added chapter 1"
git push	Sends your work to GitHub	git push origin main

Flow Diagram 2: Teamwork with Branches 🍃

graph LR

A [Main Project] --> B [Create Branch: `git branch new-feature`]

B --> C [Switch: `git checkout new-feature`]

C --> D [Add Changes]

D --> E [Merge: `git merge new-feature`]

Activity:

1. Make a new branch: `git branch homework`
2. Add a line to `story.txt`:

```
bash
echo "Once upon a time..." >> story.txt
git commit -am "Added story start"
```

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3. Merge it back: `git merge homework`

Resolve Conflicts Like a Hero! 🦸

Scenario: Two friends edit the same line in `story.txt`.

Solution:

1. Git shows a "conflict" message.
2. Open the file, choose the best version, and save.
3. Run:

```
bash
git add story.txt
git commit -m "Conflict solved!"
```

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GitHub Adventure 🌐

1. **Fork a Repository:** Copy someone's project to your account.

2. **Clone It:** Download it to your computer:

```
bash
```

[Copy](#)

```
git clone https://github.com/username/project.git
```

3. **Pull Request:** Send your changes back to the original project.

Flow Diagram 3: Share Your Work

```
graph LR
  A[Your Computer] --> B[GitHub Cloud]
  B --> C[Friend's Computer]
  C --> A
```

Quick Quiz!

1. What command saves your project's snapshot?
 - a) git add
 - b) git commit ☒
2. How do you create a new branch?
 - a) git branch ☒
 - b) git push

Conclusion

Git and GitHub are your superpowers for coding adventures! Practice with fun projects, and soon you'll be a **version control wizard**!

By **PAPALI PR SAHU**

"Keep exploring, one commit at a time!" 