BASIC GIT AND GITHUB GUIDE

Some basic file management commands

For Windows (Command Prompt):

1. dir - Lists files and directories in the current directory.
2. cd [directory] - Changes the current directory.
3. mkdir [directory_name] - Creates a new directory.
4. del [file_name] - Deletes a file.
   - rmdir [directory] /S - Removes a directory and its contents.
5. copy [source] [destination] - Copies files from one location to another.
6. move [source] [destination] - Moves or renames files or directories.
7. type [file_name] - Displays the contents of a file.
8. attrib [file_name] [+/-R] [+/-H] - Changes file attributes (read-only, hidden, etc.).
9. findstr [pattern] [file_name] - Searches for text within a file.

For Linux/macOS:

1. ls - Lists files and directories in the current directory.
2. cd [directory] - Changes the current directory to the specified one.
3. mkdir [directory_name] - Creates a new directory.
4. rm [file_name] - Removes a file.
   - rm -r [directory] - Removes a directory and its contents.
5. cp [source] [destination] - Copies files or directories from one location to another.
6. mv [source] [destination] - Moves or renames files or directories.
7. touch [file_name] - Creates an empty file.
8. chmod [permissions] [file_name] - Changes file permissions.
9. find [directory] -name [file_name] - Finds a file by its name.
10. cat [file_name] - Displays the contents of a file

Steps for adding file to github Repository

Here's a step-by-step guide to upload a file to GitHub from your local machine using basic Git commands:

Step 1: Install Git

If you don't have Git installed, you need to install it:

- For Windows : [Download Git](https://git-scm.com/download/win) and install it.
- For macOS : You can install it using Homebrew (`brew install git`).
- For Linux : Use the package manager:
  - Ubuntu/Debian : `sudo apt install git`
  - Fedora : `sudo dnf install git`

Step 2: Set Up Git

Install GitHub CLI from https://cli.github.com/

After installing goto command prompt

And type "

gh auth login

"

And follow on screen instructions to setup and give access to your github account.

Step 3: Create a GitHub Repository

1. Log in to [GitHub](https://github.com).
2. Click the + icon in the upper right corner and select New repository .
3. Name the repository and choose whether it should be public or private .
4. Click Create repository .

Step 4: Clone the Repository to Your Local Machine

1. Copy the repository URL from GitHub.

2. Open the terminal/command prompt, and use the `git clone` command to clone the repository to your local machine:

git clone https://github.com/your-username/your-repository.git

This creates a local copy of the repository on your computer.

Step 5: Add a File to the Repository

1. Navigate to the repository folder:

cd your-repository

2. Create or copy the file you want to upload into this folder. For example:

touch example.txt

Or you can manually place the file here using a file explorer.

Step 6: Stage the File for Commit

You need to tell Git that you want to include this file in the next commit. Use the `git add` command to stage the file:

git add example.txt

To add all files in the folder, you can use:

git add .

Step 7: Commit the Changes

After staging, you need to commit the file. A commit is like saving a version of your project:

git commit -m "Added example.txt"

The `-m` flag allows you to add a commit message explaining the changes.

Step 8: Push the Changes to GitHub

Now, push the committed changes from your local machine to the GitHub repository:

git push origin main

- `origin`: Refers to the remote repository (GitHub).

- `main`: Refers to the branch (often called `main` or `master` depending on how your repository is set up).

GitHub will now contain the file you just uploaded.

Example:

Let's say you created a file named `hello_world.py` locally and you want to upload it:

1. Navigate to your project folder :

   cd ~/projects/my_repo

2. Create or copy your file :

   echo "print('Hello, World!')" > hello_world.py

3. Stage the file :

   git add hello_world.py

4. Commit the file with a message :

   git commit -m "Added hello_world.py"

5. Push the changes to GitHub :

   git push origin main

Summary Of Git Commands:

1. git clone [URL] : Clones a remote repository to your local machine.
2. git add [file] : Stages a file for commit.
3. git commit -m "[message]" : Commits the changes with a message.
4. git push origin [branch] : Pushes the changes to the remote repository (GitHub).
5. git status : Shows the current status of the repository (files staged, untracked, etc.).
6. git pull : Pulls the latest changes from the remote repository to your local machine.