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Assignment 2A

Version Control with Git & GitHub

1. Creating a GitHub Account

To use GitHub, you need an account. Follow these steps:

1. Go to [GitHub](#).
2. Click **Sign Up**.
3. Enter your email, password, and a unique username.
4. Verify your email and complete the setup.

2. Installing Git

Download and install Git from the official website:

- **Windows:** git-scm.com
- **Linux (Ubuntu):** `sudo apt install git`

Verify installation: `git --version`

3. Configuring Git Locally

After installing Git, configure it with your GitHub account:

```
git config --global user.name "Krutika"  
git config --global user.email krutikasalve24@gmail.com
```

Check configuration: `git config --list`

4. Creating a Local Repository

1. Open **Command Prompt**.
2. Navigate to your project folder:
C:\Users\91902\Desktop\TE\Sem 6\WAD\Practicals\WAD
3. Initialize Git: `git init`

5. Creating a GitHub Repository

1. Go to **GitHub**.
2. Click **New Repository**.
3. Enter a repository name (e.g., WAD).
4. Choose **Public** or **Private**.
5. Click **Create Repository**.

6. Adding Files to Git

1. Create or move your project files into the repository folder.
2. Add files to the staging area: `git add .`
3. Commit the changes: `git commit -m "Initial commit"`

7. Connecting the Local Repository to GitHub

To link the local repository with GitHub, use:

```
git remote add origin https://github.com/Krutika9021/WAD.git
```

Verify the remote connection: `git remote -v`

8. Pushing Code to GitHub

To upload your code to GitHub: `git push -u origin main`

9. Pulling Changes from GitHub

To get the latest changes from GitHub: `git pull origin main`

10. Cloning an Existing Repository

If you want to copy a repository from GitHub: <https://github.com/Krutika9021/WAD.git>

11. Checking Git Status

To check which files are modified, staged, or untracked: `git status`

12. Viewing Commit History

To see previous commits: `git log`

13. Uploading This Document to GitHub

1. Move this document into the **Assignment 2A** folder: move Git_Commands.docx "Assignment 2A/"
2. Add, commit, and push the document:

```
git add Assignment 2A/Git_Commands.docx
git commit -m "Added Git commands document"
git push origin main
```