This document outlines the steps we followed to install and configure **Git**, create a **GitHub** repository, and integrate the project with **PyCharm IDE**.

Tools  **- Git , GitHub , PyCharm**

**Git Configuration** - git config --global user.name "Arpitha Munagala "

config --global user.email [xxxxxx@example.com](mailto:xxxxxx@example.com)

GitHub Setup – Logged into a GitHub account and created **New Repository**, named it assignment.

**Connecting Git with GitHub**

**Using SSH for Secure Connection -** Generated an SSH key in git bash –

1. ssh-keygen -t rsa -C [your.email@example.com](mailto:your.email@example.com)

cmd: – cd ~/.ssh to change the directory to the generated key folder

cmd: ls – to list the file

to display the key- cmd: cat id\_rsa.pub

1. Copy the key- cmd: id\_rsa.pub
2. Add the SSH key to GitHub:  
   GitHub → Settings → SSH and GPG Keys → New SSH Key → Paste the copied key.
3. Clone the repository: git clone git@github.com:your-username/assignment.git

**Project Setup in PyCharm**

1. Open PyCharm → File → Open → Selected the cloned folder.
2. Configured the Python Interpreter:
   * File → Settings → Project → Python Interpreter → Added interpreter
3. Used the built-in Git integration in PyCharm to track changes and commit updates.

After making changes in my Python code, I used the following Git commands :

git add .

git commit -m "Initial commit with assignment folder"

git push origin main

By setting up Git, GitHub, and PyCharm, we successfully established a professional development workflow.

A screen shot of a computer

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A computer screen shot of a program code

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