Tool Setup

### GitHub Setup:

Login into Github:

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Click on your Profile Icon on the top right corner and go to Settings -> SSH and GPG Keys

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Create new SSH key

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In powershell, type `ssh-keygen`

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Hit Enter till the key is generated

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Get your ssh key by typing: `cat .\.ssh\<Name of your SSH Key>.pub`

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Copy your ssh key and paste in github:

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Now go to Git Bash and type the following commands:

git config --global user.name "Your Name" // Give your Github Username

git config --global user.email [your.email@example.com](mailto:your.email@example.com) // Give your Github email address

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### Git Cheatsheet:

To Initialize a new repository:  
*git init*

To Add files to staging

*git add .*

To commit changes to git

*git commit -m “commit message”*

Connect to remote repo

*git remote add origin* [*https://github.com/yourusername/your-repo.git*](https://github.com/yourusername/your-repo.git)

To Check modified files in working directory

*git status*

To check differences in files

*git diff*

*git diff filename.java*

To update local codebase from github

*git pull origin main*

*git pull origin feature-branch*

To check for changes in branches before pulling:  
*git fetch –all*

*git fetch origin*

To push code

*git push*

*git push origin main*

*git push origin feature-branch*

To Clone a repo

*git clone <repository\_url>*

*git clone https://github.com/yourusername/repository-name.git*