# Version Control with Git

## What is Git and Github

git is a cli tool that **save** or conserve your **code** when you upoload your code regularly git takes care of all the history like when and who change and what's the code that changed. Github is a ui tool where you can post your copies of code to basically work with developers around the world. The basic idea of github during its invention by **Scot chacon** and other developers was the same.

We can make our profile on github and make open source contribuitons. Foreingners believe that *you dont need a resume if you have a strong github profile*.

As a DevOps enginneer git is the basic tool to learn and its our job to maintain the code.

Github also provides us with simple solution to ci/cd which is again a very important skill for a devops enginner which is **github actions**.

Through github actions you can test your code automatically and publish it directly to github.

These are simple commands which github use:
**git status**: To tack any change in the repository
**git clone**: to copy code from remote to local pc
**git add** . : To stage the commit
**commit**: When you made changes you need to add a line describing your change which github save for future reference.
Git commit -m " first commit": You can add your message in between these commas

git works in three satge:
First to **stage** your change
Second to **commit** your change
Third to **push** your change easily with the command "git push -u origin main"