Git -
- DVCS - Distributed Version Control System
- Created by Linus torvalds in 2005 after a "working vacation" to think on alternatives to BitKeeper (Then used DVCS by developers of Linux Kernel)
- Git is not an acronym
- The Git tool runs locally on a computer
- Helps keep complete record of who is making the changes, what are the changes and when.

GitHub -
- a Web-based Git repository hosting service
- You can think of it as a 'cloud for codes'.
- So basically it is a place to store your identical working directories or repositories. It literally is a hub for the Git repositories which you can use, simply by creating a free account on the GitHub. These accounts come with an abundant storage space where you can store your repositories and build a proper profile which holds a great value. By default the repositories are public i.e., everyone can see your codes but you can make it private as well.
- It works along with the collaboration of Git. While Git is a command line tool, GitHub is a Web-based graphical interface which provides you with the access control, basic task management tools along with several collaboration features.

Git Features and Installation -

- **Distributed**
- **Compatibility**
- **Non-linear Development**
- **Branching**
- **Lightweight, Speed, Reliable**
- **Secure and Economical**
- **Open-Source**

Day 2 Slides

Installation is Important to proceed further so make sure to get any issues resolved before tomorrow. Follow the steps in the slides to install.

Also once verify that ssh-key has been added by executing the following command in git bash (for windows) and the terminal (for linux/mac)

ssh-add -l

Should see output having your email id in the end or path to ssh file. Like any one shown below.

```
kanjal@LoneWolfKJ:~$ ssh-add -l
2048 SHA256:uZX0TVdYmQwIMT+WMEhACO1JxMeq66Sn4kBVE3z0lR4 /home/kanjal/.ssh/id_rsa
 (RSA)
4096 SHA256:MJahJE5Wa5P/d8XRNfwIsr3RFtC5ixvOhrF+n3MJ0xw kanjaldalal1000@gmail.co
m (RSA)
kanjal@LoneWolfKJ:~$
```