**Learning Udemy course part-1**

* **What is Devops:**
* Devops= development+operations
* Devops is the combination of best practices and tools which is designed to increase an organization company's ability to deliver applications/ projects and services faster than traditional software development processes.
* This speed enables organizations to better serve their customers and compete more effectively in the market.
* **Benefits of Devops:**

1. Speed
2. Rapid delivery
3. Reliability
4. Improved collaboration
5. Security.

* **Devops lifecycle:**
* Plan
* Code
* Build
* Test
* Release
* Deploy
* Monitor
* Feedback
* **Devops workflow:**
* **Git:**
* Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.
* It is also called source control system.
* Tracking and managing changes to source code overtime.

**Goal of git:**

* Speed
* Data integrity
* Support for distributed
* Non linear workflows.
* **Two types of version control systems:**

1. Centralized version control system
2. Distributed version control system.

* **How to create github account, create repository and clone a repository:**
* Go to browser
* Enter github signin
* Give email, username and password
* Account will be create.
* **Create repository in github:**
* Click on new
* Enter repository name
* Click on public or private
* Click on README file
* Click on create repository
* Repository created.
* **Clone a repository:**
* Git clone <Repository url>
* Clone means copy the files from the remote repository to our local machine.
* **Stages in git:**
* **There are three stages in git:**

1. Working area/untracked area (git add <filename>)
2. Staging area/ tracked area (git commit -m “message”)
3. Local repository. (files will see in local repository).

* **Config:**
* Git config --global user.name “enter name”
* Git config --global user.email “enter email”
* To see the config details git config --global --list.
* **Git pull:**
* In git pull is a command that fetches changes from a remote repo and merges them into the local repository
* **Git push:**
* Push means that sends committed changes from a local repository to remote repository.
* **Git log:**
* To see the commit history.

Git log --oneline(to see all commits)

Git show <commitid> (to see single commit in detailed view)

* Head: it means last commit happened on your system.