**Assignment 1**

Jenkins is a popular open source tool to perform continuous integration and build automation. Create a repo using git & Setup Jenkins. Create one administrator user and manage their roles.

You are required to perform following tasks:

* Setup Master-slave Architecture
* Create a Jenkins Pipeline (Describe steps, nodes and various stages included in the pipeline)
* Showcase Build, Test and Deploy stages
* Handle possible failures while executing pipeline
* Create one additional branch and handle pull requests
* Make some changes in the source code and integrate
* Create Staging & Production Environment
* Deploy changes to Staging Environment
* Deploy changes to Production Environment
* List the importance and benefits of CI\CD