Day 5 Class of DevOps

Agenda -Recall for Git and GitHub and environment of DevOps, Remote cloud, Line view of CI/CD pipeline, Roles and responsibilities of Tools and People in work environment

1. Recall for Git and GitHub – How to initialization the file at Git Bash and how to stage the files and how to commit the file and how to config the file and how to push and pull the file from local repository to remote repository

* Steps to push and pull the file from local repository to remote repository
* First step select the file which we want to repository the file to remote cloud
* Once we get select the file we need to initialize the file with command git init
* Once we initialize the file user would be change from main to master
* Once user got change we need to stage the file using command as git add <filename> or git add .

(git add .) 🡪 *This command is used for to stage all file with single command*

* Once it got stage we need to check the status of file with command is git status once it got stage file would be change into green color like

Changes to be committed:

(use "git rm --cached <file>..." to unstage)

new file: addition.py

Staging area

new file: division.py

new file: multiplication.py

* Once it got stage we need to commit means we need to give the commitments to files for local repository for commit command is git commit –m “Any given name as understandable manner”
* Once it got commit we need to config the file with GitHub email and username using command is git config –global user.email “your email”

git config –global user.name “your name”

* Once it got config we need to remote the file file from local repository to remote cloud repository using command git remote add <name> <url>
* Once it got remote the file we need to push the file to remote cloud repository known as Github repository using command git push <origin master>
* If git repository was already create with another user and we need to dump files from different users and we need to access the access at that time we need to pull the file from remote repository to your local repository and after that work got you need to pull the file to remote repository

1. Environment of DevOps and GitHub
   * DevOps means development plus operation would be help with continues monitoring , testing and deployment
2. Brief view of CI/CD pipeline

CI means – Continuous integrity

CD means – Continuous Delivery

* + First we will get the project order from PO, PO will inform to Project manager after that task will we assign to individual person once task got complete every team person will dump the code to git repository from local repository for every individual repository code will move to inventory repository it would be use for merge the code with integrated branch
  + What is integrated branch – The branch which is used in github for stock and merge the all code which was developed by another teammates
  + Once code got integrated to remote repository it would be test with Quality team if they find error we get an update from QA team to project manager we need to recheck the code for find the error code prior all this process was held by manually it would take long time to get output
  + All this process is known as CI/CD pipeline
  + So to shorten the process they introduce the process for update from QA team we use Jenkins to update to QA team as well PM through Jenkins, Once we reposit the code to github QA team will get the notification, Once they get the notification they will test the code and resend the update or if they get any error they raise a ticket with ticketing tool this process would be done by the Jenkins
  + And right now all are using cloud platform to reduces the update issues and operating system environment issues