GIT-VERSION CONTROL SYSTEM (VCS)

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LAB-1
CREATING EC2 INSTANCE

- Login to the AWS account.

- Create the ec2 instance with Amazon-Linux(AMI) with SSH(22) at Security group.

- Install Git-bash and Connect the local machine to virtual server by using SSH command of created instance.

LAB-2
CREATE REPO IN LOCAL MACHINE

- Create the empty directory and initialize it by using git init command.
- Create the file in vi mode along with some data by using command as

    a. vi <filename.html or .txt>

- Add and commit the created file by using command as

    a. git add <filename>

    b. git commit –m "file information" <filename>

- Now check git status and git branch by using command as
    a. git status
    b. git branch

- Check the created file tracked by git or not by using command as
    a. git ls-files

LAB-3
CREATING REPO IN REMOTE LOCATION-GITHUB

- Go to github account and go to new select it and create a repository with selecting README.md file.

- Finally the repository created in remote location Git-hub.

LAB-4
WORKING ON REMOTE REPO

- Clone the repository to local machine from Git-hub by using command as

   a. git clone <the https URL link of repository>

- Create a file and add it and commit it and finally push it by using PAT(Personal Access Tocken).

- Now go to the Git-hub account and go to settings, and go to developers setting and click on generate token by giving expire date.

- Finally the main branch files are pushed from local machine to Git-hub.

LAB-5
PUSHING A LOCALLY CREATED REPO TO GITHUB

- Now go to Git-hub and create a empty repository without adding README.md file.

- There is command to give fetch and push paths along with created empty repository HTTPS URL link.

- Now go to terminal and past this command as

    a. git remote add origin <The URL link of empty repository>.

- Now push the all branches files of local repository to git hub by using command as git push --all or git push origin <branch>.

- Finally all branches files are pushed to github successfully.

LAB-6
CRERATE NEW BRANCH FROM YOUR MASTER BRANCH

- Go to master branch dropdown button click on it and enter new branch name and click on create branch name.

- Now successfully the new branch is created along with the all files of master branch

LAB-7
PULL ALL BRANCHES TO LOCAL MACHINE

- Pull all branches to local machine by using command as git pull –all.

- Go to created branch from master branch by using command as git checkout <branch name> and Create some files in created new branch add it and commit it.

- Now push the all branches to the git hub buy using a command as

  a. git push –all.

- Now go to git hub check the branches the master branch is doesn't change. But the newly created branch files are changes.

LAB-8
MERGE FEATURE BRANCH WITH MASTER BRANCH

- First go to master branch click on create pull request and select created branch and click on create confirm merge request.

- Finally the pull request is created and a new branch merged with master branch.

LAB-9

GO TO LOCAL MACHINE

- Now go to local machine and pull the all branches from git hub by giving a command as git pull –all or git pull origin <branch name>.

- Finally master branch and newly created branch both are have same files like in repository have same files in github from which one we pulled that repository.