Report on Git and Git Hub

➢ **What is Git and Git hub?**

Ans: Git – It is a version control system. We use git locally on our own system to make some changes in the project in which we are currently working and also to save the changes. It basically gives us a platform where we can monitor our project to which only we can have access(locally).

Git hub – It is a online platform where we basically upload our projects. It is accessible to everyone unlike git. It is a open source platform. In git hub, we have other's project and also, we can make some changes on it (contribution) if we wish to do so.

Basically, Git and Git hub is a tool.

➢ *How can a new user set up Git using command lines?*

• If you are new to git and git hub, you also to need set up git locally on your system. In other words, it is similar to sign up which we do in git hub or any other online platforms. Following commands to be used in git bash :

- 1. git config: --global user.name (your_name)

2. git config: --global user.email (your_e-mail id)

Some important Git Commands: -

1. ls – used to see the files/folders/directories.

2. git status – used to check the current status of the files.

3. git init -used to initialize the git

 4. git add -A – used to add a file into git's observation (tracking).

5. git commit -am "(add a comment)" – used to save a change along with a comment. This command add and commit simultaneously.

6. git log – shows us all the commits and their time which we have already made (along with commit id)

7. git branch – shows the main branch along with the branches we have created.

8. git checkout -b (new branch name) – used to make a new branch.

9. git branch -d (branch name) – used to delete the branch.

10. git checkout (branch) -used to switch to the mentioned branch.

10. git clone url.git – to download the repository to our local system

12. git remote -v – shows the URL from which the files are cloned or to which we want to push.

13. git push origin branch name– to upload the files to git hub.

There are many more git commands but above are the most commonly used.