1. What is GitHub?

• Git is an open-source version control system that was started by Linus Torvalds—

the same person who created Linux. Git is similar to other version control systems

like Subversion, CVS, and Mercurial.

2.What Is Version Control System?

• Version control system is the management of changes to documents, computer

programs, Websites, and other information's.

• These changes are usually termed as “Versions”.

• If a mistake is made, developers can turn back the clock and compare earlier

versions of the code to help fix the mistake while minimizing disruption to all team

members which is the main advantage of version control system.

3.What is a Repository in GitHub?

• Repository is a directory or storage space where your projects can live. Sometimes

GitHub users shorten this to “repo.” It can be local to a folder on your computer, or

it can be a storage space on GitHub or another online host. You can keep code

files, text files, image files, you name it, inside a repository.

• Repository are of two types:

1. Central Repository: It is typically located on Remote Server. It consists of “.git”

repository folder. It is used for the development teams to share and exchange

data.

2. Local Repository: It is typically located on local machine. It stays as a “.git” folder

inside your project’s root. Only the Owner/ Admin of the machine can work with

this repository.

4 .How to create Repository in GitHub?

• You need a GitHub repository when you have done some changes which are ready

to be uploaded. The GitHub repository will acts as your remote repository.

• Follow these simple steps to create a GitHub repository:

1. Go to the link: https://github.com/ .

2. Fill the sign up form and click on “Sign up for Github”.

3. Click on “Create a repository” button in “Start a new project” tile.

5.How to use Commit Command in GitHub ?

• This operation helps you to save the changes in your file. When you commit a file,

you should always provide the message, just to keep in the mind the changes done

by you also follow the below steps our first commit

1. Click on “readme- changes” file which we have just created.

2. Click on the “edit” or a pencil icon in the right most corner of the file.

3. Once you click on that, an editor will open where you can type in the changes.

4. Write a commit message which identifies your changes.

5. Click commit changes in the end.

6.How to use Pull Command in GitHub ?

• Pull command is the most important command in GitHub. It tell the changes done

in the file and request other contributors to view it as well as merge it with the

master branch. Once the commit is done, anyone can pull the file and can start a

discussion over it. Follow the below steps involved to pull request in GitHub.

1. Click the ‘Pull requests’ tab.

2. Click ‘New pull request’.

3. Once you click on pull request, select the branch and click ‘readme- changes’ file

to view changes between the two files present in our repository.

4. Click “Create pull request”.

5. Enter any title, description to your changes and click on “Create pull request

7.How to create a branch in GitHub ?

• Follow the below mentioned steps to create a branch in GitHub:

1. Click on the dropdown “Branch: master”.

2. After clicking on the branch, you can find an existing branch or you can create a

new one. In my case, I have created a new branch with a name “NewReadme-

Changes”.

8.How to Clone GitHub Repository ?

• Cloning is done to use some code which is present in a public repository, where

you can directly copy the contents by cloning or downloading.

9.How to use Merge Command in GitHub ?

• Merge command is used to merge the changes into the main master branch.

• Follow the below steps to merge pull request:

1. Click on “Merge pull request” to merge the changes into master branch.

2. Click “Confirm merge”.

3. You can delete the branch once all the changes have been incorporated and if

there are no conflicts

10.how to push code into github?

1.first we have to write code and we have to commit it into repository

2.after committing the code u have to click on push ,then it gets pushed followed by raising pull request