Git and GitHub on Microsoft Visual Studio

1. What is Git?

Git is a distributed version-control system for tracking changes in source code during software development. It is designed for coordinating work among programmers, but it can be used to track changes in any set of files. Its goals include speed, data integrity, and support for distributed, non-linear workflows.

2. What is GitHub?

GitHub is a Git repository hosting service, but it adds many of its own features. While Git is a command line tool, GitHub provides a Web-based graphical interface. It also provides access control and several collaboration features, such as a wikis and basic task management tools for every project. The flagship functionality of GitHub is “forking” – copying a repository from one user’s account to another. This enables you to take a project that you do not have write access to and modify it under your own account. If you make changes you would like to share, you can send a notification called a “pull request” to the original owner. That user can then, with a click of a button, merge the changes found in your repo with the original repo. These three features – fork, pull request and merge – are what make GitHub so powerful.

3. Git Command

a. git clone- used to clone repository

git clone <https://github.com/user/myfile.git>

b. git status- command displays the state of the working directory and the staging area. It lets you see which changes have been staged, which haven't, and which files aren't being tracked by Git.

c. git add “ file name”, git add . all files, git add \*.\* ,git add \*.com customize file

d. git commit – “”,

e. git push

f. git config --global user.name  [“Your](mailto:%20xxxx@gmail.com) Email”

g. git config --global user.name "Your Name"

h. git pull –pull the latest version

i. git branch – check the branch

j. git branch newbranch : create new branch call newbranch

k. git checkout branchname: switch to that branch( branch off from master and switch to the branch out branch)