**GIT**

1. What is Git?

Git is a version control system used for tracking changes in computer files. It is generally used for source code management in software development.

**Version control system:** The code which is stored in Git keeps changing as more code is added. Also, many developers can add code in parallel. So the Version Control System helps in handling this by maintaining a history of what changes have happened.

* Git is used to tracking changes in the source code.
* The distributed version control tool is used for source code management.
* It allows multiple developers to work together.
* It supports non-linear development through its thousands of parallel branches.

1. Commands in Git

**git config:** This command sets the author name and email address respectively to be used with your commits.

Usage: git config –global user.name “[name]”

Ex: git config –global user.name “ttthien27”

Usage: git config –global user.email “[email address]”

Ex: git config –global user.email “ttthien.20@gmail.com”

**git init:** This command is used to start a new repository.

Usage: git init [repository name]

Ex: git init GitTest

Ex: git init

**git clone:** This command is used to obtain a repository from an existing URL.

Usage: git clone [url]

Ex: git clone

**git remote:** This command is used to connect your local repository to the remote server.

Usage: git remote add [variable name] [Remote Server Link]

Ex: git remote add origin https://github.com/ttthien27/GitTest.git

**git add:** This command adds to the staging area**.**

Usage: git add [file]

Ex: git add .

Ex:

**git commit:** commit the change and push the change info to the Local Repository

Usage: git commit -m “[ Type in the commit message]”

This command records or snapshots the file permanently in the version history.

Ex: git commit -m “first commit”

Usage: git commit -a

This command commits any files you’ve added with the git add command and also commits any files you’ve changed since then.

**git log:** This command is used to list the version history for the current branch.

Usage: git log

**git branch**

Usage: git branch

This command lists all the local branches in the current repository.

Usage: git branch [branch name]

This command creates a new branch.

Ex: git branch newBranch

**git push:**

**git pull:**