Module 3 learn git

If you want to connect any file to github you have to do 6 things in git bash or vs terminal or cmd terminal:

```
    echo "# myModule1" >> README.md not mandatory
    git init
    git add README.md / .(dot)
    git commit -m "first commit"
    git branch -M main
    git remote add origin link copy and paste like https://github.com/Tanvirulislam345/myModule1.git
    git push -u origin main
```

If you change any code or send anything in github repository you have to do 3 things:

```
1. git add .or [specific file name] than Enter
2. git commit -m "comment" than Enter
3. git push than Enter or
Note: Use only when send data in the branch
```

git push --set-upstream origin [branch name].

If you change current working repository you to do again 6 work like file link to github:

```
    git init
    Git add README.md / .(dot)
    git commit -m "first commit"
    git branch -M main
    git remote set-url link copy and paste like https://github.com/Tanvirulislam345/myModule1.git
    git push -u origin main
```

- > If we want to see our website using github server just follow the instruction :
 - 1 First go to setting
 - 2. Then click pages
 - 3. select branch main and save

Branch and merge :

- git branch use see how many branches you have.
- git branch [branch name] used for creating branches.
- git checkout [branch name] used to go to another branch from the current branch.
- git checkout -b [branch name] used to create and go to the new creating branch from the current branch.
- git merge [filename] used for brought data to current branch from another branch

Note : you must add, commit and push after merge

 Git pull used to bring new commits from remote to local repository.

Git conflict : you face some problems using conflict practice
more and more.

Some useful command :

- 1. mkdir folderName used to make a directory.
- 2. touch file/folderName used for creating a file or folder.
- 3. ls, or ls -a used to show all files or folders.
- 4.git clone link used for taking value from remote to file.
- 5. pwd use for show path

scroll here for some command At a glance

Getting & Creating Projects

Command	Description
git init	Initialize a local Git repository
git clone ssh://git@github.com/[username]/[repository-name].git	Create a local copy of a remote repository

Basic Snapshotting

Command	Description
git status	Check status
git add [file-name.txt]	Add a file to the staging area
git add -A	Add all new and changed files to the staging area
git commit -m "[commit message]"	Commit changes
git rm -r [file-name.txt]	Remove a file (or folder)

Branching & Merging

Command	Description

git branch	List branches (the asterisk denotes the current branch)
git branch -a	List all branches (local and remote)
git branch [branch name]	Create a new branch
git branch -d [branch name]	Delete a branch
git push origindelete [branch name]	Delete a remote branch
git checkout -b [branch name]	Create a new branch and switch to it
git checkout -b [branch name] origin/[branch name]	Clone a remote branch and switch to it
git branch -m [old branch name] [new branch name]	Rename a local branch
git checkout [branch name]	Switch to a branch
git checkout -	Switch to the branch last checked out
git checkout [file-name.txt]	Discard changes to a file
git merge [branch name]	Merge a branch into the active branch
git merge [source branch] [target branch]	Merge a branch into a target branch

git stash	Stash changes in a dirty working
	directory

git stash clear Remove all stashed entries

Sharing & Updating Projects

Command	Description
git push origin [branch name]	Push a branch to your remote repository
git push -u origin [branch name]	Push changes to remote repository (and remember the branch)
git push	Push changes to remote repository (remembered branch)
git push origindelete [branch name]	Delete a remote branch
git pull	Update local repository to the newest commit
git pull origin [branch name]	Pull changes from remote repository

```
git remote add origin
ssh://git@github.com/[username]/[repository-nam
e].git

git remote set-url origin
ssh://git@github.com/[username]/[repository-nam
e].git

Set a repository's
origin branch to
SSH
```

Inspection & Comparison

Command	Description
git log	View changes
git logsummary	View changes (detailed)
git logoneline	View changes (briefly)
git diff [source branch] [target branch]	Preview changes before merging