## Module 3-Git, source control, GitHub and hosting

### 3-1 github Module Introduction

- 1. Git SCM download = cmd ->git -version
- 2. GitHub download

**Source code management** (SCM)

### 3-2 Install git, create GitHub repository

```
cd.. (folder path)
```

```
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:hamidhosen42/Programming-
Hero.git git push -u origin main
```

## 3-3 Introduction to Git init, git add, git commit

```
echo "# Programming-Hero" >> README.md
git init
git add .
git commit -m "first commit"
git branch -M main
git remote add origin git@github.com:hamidhosen42/Programming-
Hero.git git push -u origin main
```

#### if : git@github.com: Permission denied (publickey).

1. git remote rm origin

2. ğit remote add origin https://github.com/hamidhosen42/simple portfolio.git

## 3-4 Set origin, Git push, git pull, and repo overview

### If author identity unknown:

```
git config –global user.email "mdhamidhosen8444@gmail.com" git config –global user.name "hamidhosen42"
```

## 3-5 Send small incremental changes to github

```
1. git add.
```

- 2. git commit -m "first commit"
- 3. git push

4. git push origin main –f

## 3-6 Host simple website in gitHub using gh-pages

Setting -> page= main->save

# 3-7 Common github related issues faced by new developer

# 3-8 [advanced] Create git branch, merge branches

Commend link: <a href="https://github.com/joshnh/Git-Commands">https://github.com/joshnh/Git-Commands</a>

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
<pre>git checkout -b [branch name] origin/[branch name]</pre>	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
<pre>git checkout [file-name.txt]</pre>	Discard changes to a file
git merge [branch name]	Merge a branch into the active branch
<pre>git merge [source branch] [target branch]</pre>	Merge a branch into a target branch
git stash	Stash changes in a dirty working directory
git stash clear	Remove all stashed entries

# Main Branch to push another Branch:-> git branch

### 1. git branch

- 2. git branch image-add = git branch branch\_name
- 3. git branch
- 4. git checkout image-add = git checkout branch\_name ->html or other file code adit
- 5. git add.
- 6. git commit -m"added paragraph"
- 7. git push
- 8. git push --set-upstream origin image-add

#### **Branch to main Branch Change: ->marge**

- 1. git branch
- 2. git checkout main
- 3. git merge image-add = git merge branch\_name or
- 4. git push origin main –f

### 3-9 [advanced] git pull, toggle branch, merge conflict

#### **Branch create:**

- 1. git branch
- 2. 2.1-git branch image-add = git branch branch\_name or 2.1-git checkout -b add-blog
- 3. 2.1-git branch
- 4. 2.1-git checkout image-add = git checkout branch\_name ->html or other file code adit
- 5. 2.1-git add.
- 6. 2.1-git commit -m"added paragraph"
- 7. 2.1-git push
- 8. 2.1-git push --set-upstream origin image-add
- 9. 2.2- git commit -m"added paragraph"
- 10. 2.2- git status
- 11. 2.2-git add.
- 12. 2.2- git commit -m"hamid"
- 13. 2.2- git push
- 14. 2.2- git push --set-upstream origin image-add

# Branch to main Branch Change: -> merge conflict

- 1. git branch
- 2. git checkout main
- 3. git merge image-add = git merge branch\_name or
- 4. git push origin main -f

3-10 GitHub module overall summary