**WEEK 8**

**Module 11 – Version control – GIT**

**3.Git-HOL**

**Branching**

**1. Create a New Branch**

*git branch GitNewBranch*

**2. List All Branches (Local & Remote)**

*git branch -a*

* The \* shows your current branch.

**3. Switch to the New Branch**

*git checkout GitNewBranch*

**4. Add a New File & Add Content**

*echo "This is content for the new branch" > branchfile.txt*

**5. Stage and Commit Changes**

*git add branchfile.txt*

*git commit -m "Added branchfile.txt in GitNewBranch"*

**6. Check Status**

*git status*

**Merging**

**1. Switch Back to Master**

*git checkout master*

**2. View Differences Between Master & Branch (CLI)**

*git diff master GitNewBranch*

**3. View Differences Using P4Merge *(if installed)***

*git difftool master GitNewBranch*

**4. Merge Branch into Master**

*git merge GitNewBranch*

**5. View Merge History**

*git log --oneline --graph --decorate*

**6. Delete the Branch After Merging**

*git branch -d GitNewBranch*

**7. Final Status Check**

*git status*

A screenshot of a computer

AI-generated content may be incorrect.A screen shot of a computer

AI-generated content may be incorrect.**Branching Output:**

A computer screen shot of a black screen

AI-generated content may be incorrect.**Merging Output:**