# Git Branching & Merging HOL - 3

## Step 1: Create a New Branch

1. Open Git Bash in your repository folder.  
2. Create a new branch:  
 git branch GitNewBranch  
3. List all branches (local and remote):  
 git branch -a  
4. Switch to the new branch:  
 git checkout GitNewBranch  
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AI-generated content may be incorrect.

## Step 2: Make Changes in New Branch

1. Create a new file in the branch:  
 echo "This is a new branch file" > branchfile.txt  
2. Stage and commit the changes:  
 git add branchfile.txt  
 git commit -m "Added branchfile.txt in GitNewBranch"  
3. Check status:  
 git status  
A computer screen shot of white text

AI-generated content may be incorrect.

## Step 3: Switch to Master and Compare

1. Switch back to master branch:  
 git checkout master  
2. Compare differences between master and branch (CLI):  
 git diff GitNewBranch  
3. Compare differences visually (using P4Merge if installed):  
 git mergetool  
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## Step 4: Merge Branch into Master

1. Merge the branch into master:  
 git merge GitNewBranch  
2. View merge log:  
 git log --oneline --graph --decorate  
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## Step 5: Delete Merged Branch

1. Delete the merged branch:  
 git branch -d GitNewBranch  
2. Check status to confirm branch deletion:  
 git status  
