Git and GitHub Workshop Assignment

1. Setup and Initialize:

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mkdir git-workshop

cd git-workshop

2.Initialize a Git Repository:

What command initializes a Git repository in your directory?

git init

3. Create and Modify Files:

How do you create a new file named `hello.txt` and add the content 'Hello, Git Workshop!' to it using a single command?

echo "Hello, Git Workshop!" > hello.txt

4. Check the Status of Your Repository:

What command displays the status of your repository?

git status

5. Stage and Commit Changes:

What command stages the file 'hello.txt'?

git add hello.txt

What command commits the staged file with the message 'Add hello.txt with welcome message'?

git commit -m "Add hello.txt with welcome message"

6. Branching:

What command creates a new branch named 'update-content'?

git branch update-content

How do you switch to the 'update-content' branch?

git switch update-content

7. Make Changes on the Branch:

What command would you use to append the text 'This is a simple Git assignment.' to 'hello.txt'?

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What command stages and commits the changes with the message 'Update hello.txt with additional message'?

git add hello.txt

git commit -m "Update hello.txt with additional message"

8. Merge Changes:

What command switches you back to the 'main' branch?

git switch main

How do you merge the 'update-content' branch into 'main'?

git merge update-content

9. View Commit History:

What command shows the commit history?

git log

10. Undo and Reset (Practice Safely):

If you make a change to 'hello.txt' that you want to revert before committing, what command would you use?

git checkout -- hello.txt

How can you reset your branch to a previous commit (optional, for advanced practice)?

git reset --hard <commit_hash>

11. Push to a Remote Repository (Optional):

What command adds a remote repository named 'origin'?

git remote add origin <remote_repository_url>

What command pushes your local 'main' branch to the remote repository?

git push origin main

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