Cognizant Deep Skilling - Digital Nurture 4.0 - Week 8

Git Hands-On Lab 1 – Basic Git Operations and Repository Management

Step 1: Setup your machine with Git Configuration

git --version

git config --global user.name "Hobika G"

git config --global user.email "hobikagopal1704@gmail.com"

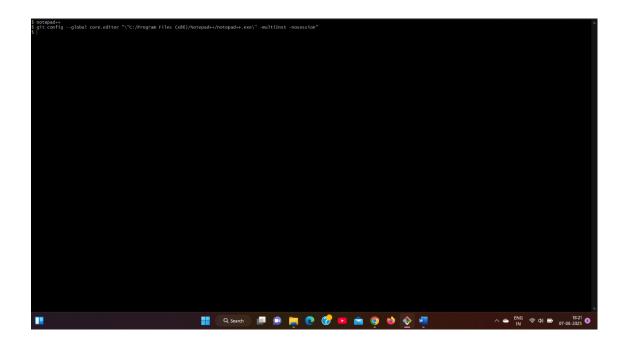
git config -list

Output:

Step 2: Integrate notepad++.exe to Git and make it a default editor

notepad++

git config --global core.editor "\"C:/Program Files (x86)/Notepad++/notepad++.exe\" -multiInst -nosession"



Step 3: Add a file to source code repository

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cd ~

mkdir GitDemo

cd GitDemo

git init

echo "Welcome to Git Hands-On Lab" > welcome.txt

ls

cat welcome.txt

git status

git add welcome.txt

git commit
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git remote add origin https://gitlab.com/Hobika9597/gitdemo.git git pull origin master git push origin master

Output:

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Git Hands-On Lab 2 - Git Ignore

Step 1: Create Unwanted Files

touch debug.log

mkdir log

touch log/system.log

Step 2: Create .gitignore File

touch .gitignore

Add:

*.log

log/

Step 3: Check Git Status

git status

Step 4: Commit and Push

git add .gitignore

git commit -m "Added .gitignore to ignore .log files and log folder" git push origin master

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Git Hands-On Lab 3 - Branching and Merging

1. Created New Branch

git checkout -b GitNewBranch

2. Listed Branches

git branch -a

3. Created a File and Committed

echo "This is from GitNewBranch" > branchfile.txt git add branchfile.txt git commit -m "Added branchfile.txt in GitNewBranch"

4. Switched Back

git checkout master git diff master..GitNewBranch

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5. Merged

git merge GitNewBranch

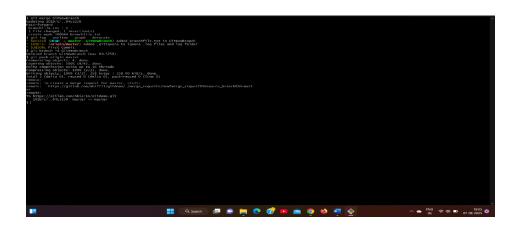
6. Checked Logs

git log --oneline --graph --decorate

7. Deleted Branch and Pushed

git branch -d GitNewBranch git push origin master

Output:



Git Hands-On Lab 4 – Git Merge Conflict Resolution

1. Created a branch GitWork

git checkout -b GitWork

2. Added hello.xml with unique content in GitWork

echo "<message>Hello from GitWork</message>" > hello.xml

git add hello.xml
git commit -m "Added hello.xml in GitWork branch"

3. Switched to master and created conflicting file

git checkout master
echo "<message>Hello from master branch</message>" > hello.xml
git add hello.xml
git commit -m "Added hello.xml in master with different content"

4. Merged and got conflict

git merge GitWork

Output:

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5. Resolved conflict manually and committed

git add hello.xml

git commit -m "Resolved merge conflict in hello.xml"

6. Updated .gitignore and cleaned up

echo "*~" >> .gitignore

git add .gitignore

git commit -m "Updated .gitignore to ignore backup files"

7. Deleted merged branch

git branch -d GitWork

8. View the final graph

git log --oneline --graph --decorate

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Git Hands-On Lab 5 – Git Cleanup & Push Lab

1. Switched to master branch
git checkout master
2. Checked git status
git status
3. Listed all branches
git branch -a
4. Pulled latest changes
git pull origin master
5. Pushed pending changes
git push origin master
6. Verified updates in GitLab repo
Visited: https://gitlab.com/Hobika9597/gitdemo

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