Git Assignment 7

Problem Statement 7

Git Ignore and Stash

- Utilize a .gitignore file to exclude specific files or directories from version control.
- Use the git stash command to temporarily save changes and switch between different branches.

GitHub link for Assignment 7

https://github.com/RahulRGolabhavi/UST-GIT-Assignment-7

Steps to Complete the Assignment

Step 1: Use .gitignore to Exclude Files and Directories

- 1. Create a .gitignore File:
 - o In your project root directory, create a .gitignore file:

```
touch .gitignore
```

2. Add Patterns to .gitignore:

o Edit the .gitignore file and add the files or directories you want to exclude. For example:

```
# Ignore all .log files
```

*.log

Ignore the build directory

/build/

Ignore temporary files

*.tmp

3. Verify Ignored Files:

o After adding patterns to .gitignore, Git will ignore matching files or directories. To check, run:

git status

Files matching the .gitignore patterns will not appear in the output.

4. Stage and Commit the .gitignore File:

o Add and commit the .gitignore file to the repository:

```
git add .gitignore
```

git commit -m "Add .gitignore to exclude unnecessary files"

Step 2: Use git stash to Save Temporary Changes

1. Make Changes to Files:

o Modify or create files in your working directory. For example:

```
echo "Temporary changes" > temp.txt
```

2. View the Changes:

Run the following command to view your uncommitted changes:

git status

3. Stash the Changes:

o Save your uncommitted changes temporarily using git stash:

git stash

o The working directory will now be clean, and the changes are saved in the stash.

4. List Stashed Changes:

o To view the list of stashed changes, run:

git stash list

You will see the stashes with names like stash@{0}.

5. Apply Stashed Changes:

o To reapply the stashed changes, use:

git stash apply

6. **Pop Stashed Changes**:

o To reapply the changes and remove the stash from the list, use:

git stash pop

7. **Drop a Specific Stash**:

o If you no longer need a stash, you can remove it:

git stash drop stash@{0}

8. Clear All Stashes:

o To delete all stashes, use:

git stash clear

Step 3: Switch Between Branches with Stash

1. Create a New Branch:

o Before switching branches, create a new branch if needed:

git checkout -b feature-branch

2. Switch Branches with Uncommitted Changes:

o If you have uncommitted changes and want to switch to another branch, stash the changes:

git stash

git checkout main

3. Apply Changes to the New Branch:

o Once on the desired branch, reapply the stashed changes:

git stash apply