EXPERIMENT 7

Version Control System setup and usage using GIT.

1. Creating a repository
2. Checking out a repository
3. Adding content to the repository
4. Commiting the data to a repository
5. Updating the local copy
6. Comparing different revisions
7. Revert
8. Conflicts and Solving a conflict

Introduction:

Git allows groups of people to work on the same documents (often code) at the same time, and without stepping on each other's toes. It's a distributed version control system.

Procedure:

1. git int <directory> : Create empty Git repo in specified directory
2. git checkout <branch name> :To checkout to another branch
3. git add <directory> : Stage all changes in <directory> for the next commit. Replace <derecoty> with <file> to change a specific file
   git add . : stage all the changes
4. git commit -m “message ”:
5. git pull <remote repo> <branch>
6. git diff <commit 1> <commit 2> : show the differece between 2 commits
7. git revert <commit> :Generate a new commit that undoes all of the changes introduced in `<commit>`, then apply it to the current branch.
8. When 2 person commit changes in the same file at the same time, and one person pull that changes to repo. Then there is a chance for conflict. Git will show us the conflict portion. Maintain what we need in code and save it.