## Lab 4 - CSC 317 & INF 307

## Part 1 – Git Revert

- 1. Create a new project folder called lab4\_id (e.g. lab4\_pscsc190001).
- 2. Initialize the folder as a git repo (git init)
- 3. Create a file called file1.txt within your project folder and add some content
- 4. Add the changes in file1.txt to the staging area (git add file1.txt) and commit (git commit -m "message")
- 5. Make some more changes to file1.txt, add to staging area, and commit
- 6. Use git log --decorate --oneline to look at the commit history
- 7. Use git revert on the newest commit, to remove the changes the last commit added (git revert <ref>)
- 8. Did the revert command add or remove a commit?

## Part 2 – Git Merge

- 1. We would be using the same lab4\_id project folder (e.g. lab4\_pscsc190001).
- 2. Modify the content of file1.txt
- 3. Add the changes in file1.txt to the staging area (git add file1.txt) and commit (git commit -m "message")
- 4. Create a new branch called mybranch and switch to it (git checkout -b mybranch)
- 5. Modify the contents of file1.txt, add to the staging area and commit.
- 6. Use git diff mybranch master to see the difference between the two branches
- 7. Switch to the master branch
- 8. Merge the changes in mybranch into the master branch (git merge mybranch)
- 9. View the content of file1.txt and discuss your observations.
- 10. Delete mybanch (git branch -d mybranch)
- 11. Create a new branch called feature and check it out
- 12. Edit the file1.txt, add it to the staging area, and commit
- 13. Switch back to the master branch
- 14. Create a file file2.txt with some content
- 15. Add file2.txt to staging area and commit
- 16. What is the output of git log --oneline --graph --all?
- 17. Diff the branches
- 18. Merge the feature branch into master
- 19. What is the output of git log --oneline --graph --all now? Observe the extra merge commit created.

## Part 3 – Overview of GitHub (Exploring the UI)

Due to time constraints, watch this short YouTube tutorial at your own pace (https://www.youtube.com/watch?v=PQsJR8ci3J0)