**Day 6 Assignment 3**

**3. Creating a New Branch and Merging with Master:**

**Create a New Branch:**

* git checkout -b <branch\_name> (creates and switches to the new branch named <branch\_name>)

**Make Changes and Commit:**

* Modify your files as needed for your feature or bug fix.
* git add <file> (stage changes to files).
* git commit -m "<message>" (create a commit with a descriptive message).

**Merge Changes Back to Master:**

* **Option 1: Simple Merge (no conflicts):**
  + git checkout master (switch to the master branch).
  + git merge <branch\_name> (merge changes from your branch, resolving any conflicts if necessary).
* **Option 2: Merge with Conflict Resolution (if conflicts arise):**
  + Edit the conflicting sections in the files manually to resolve them (Git will mark these areas with <<<<<<<, =======, >>>>>>> markers).
  + git add <resolved\_file> (stage the resolved file).
  + git commit -m "Resolved merge conflicts" (create a commit after resolving conflicts).

**Delete the Branch (Optional):**

* git branch -d <branch\_name> (deletes the branch only