TASK 1 (Git and GitHub)

Question 1
Complete definitions for key Git & GitHub terminology

GIT WORKFLOW FUNDAMENTALS
· **Working Directory:** current local directory where work is being performed, files there are untracked
· **Staging Area:** it's a space where any changes to files can be saved to for the next commit
· **Local Repo (head):** repository stored on one's computer (can be a new one or cloned from remote), head being a pointer to the currently checked out branch (there can be just one checked out at a time)
· **Remote repo (master):** repository stored remotely (in GitHub for example), master being a default branch that is created at the initialization of the repo

WORKING DIRECTORY STATES:
· **Staged:** modified files have been marked to go into the next commit
· **Modified:** files have been modified, but not committed
· **Committed:** changes in files have been stored in a snapshot (commit) of a repository

GIT COMMANDS:
· **Git add:** adds specified files that were modified to the next commit (changes are not recorded until the actual commit)
· **Git commit:** creates a snapshot of repository at the time of commit
· **Git push:** pushes local changes to remote repository
· **Git fetch:** brings local repository up to date with the remote repo changes without overwriting the local files
· **Git merge:** brings forked branches back to the main, integrating the changes
· **Git pull:** brings local repository up to date with the remote repo changes, overwriting the local files with the updates