**TASK 1 (Git and GitHub)**

**Question 1**

Complete definitions for key Git & GitHub terminology

GIT WORKFLOW FUNDAMENTALS

· **Working Directory: Is a workspace used to edit files, add new files, and delete files.**

· **Staging Area: git add is used to move your file to the staging area. It’s a rough draft space that the files are put through before git commit is used to move it to the git local repository.**

· **Local Repo (head): The local repository is a git repository that is stored on your computer and is available only to you.**

· **Remote repo (master): The remote repository is stored in an external server and allows other people to access and make changes to the repo by using git push/pull.**

WORKING DIRECTORY STATES:

· **Staged: when the file has been modified, the file moves to the staged state where the file can then be added to the local repo. It gets marked as staged when it’s ready to go to the next commit snapshot.**

· **Modified: changes have been made to the file but has not been committed to the database.**

· **Committed: file is safely saved to local database**

GIT COMMANDS:

· **Git add: adds a file from the working directory to the staging area**

· **Git commit: used to save changes. Usually in the local repo**

· **Git push: used to upload files in local repo to remote repo.**

· **Git fetch: downloads files from remote repo to local repo**

· **Git merge: used to merge another branch with the active branch**

· **Git pull: fetches and merges all remote changes. It updates all remote changes to the local repo.**