

TASK 1 (Git and GitHub)

Question 1

GIT WORKFLOW FUNDAMENTALS

Working Directory - is a folder the user creates to store all the project files.

Staging Area - are the files that are going to be part of the next commit and informs git on the changes in the file that are going to occur in the next commit

Local Repo (head) - this is the git repository that is stored on the user's computer.

Remote repo (master) - this is a git repository that is stored on a remote computer

WORKING DIRECTORY STATES:

Staged - the current version of the modified file has been marked to go into the next commit snapshot

Modified - the file has been changed but has not been committed to the database

Committed - means the data has been safely stored in the local database

GIT COMMANDS:

Git add - This command adds the contents or changes of the specified file in the working directory to the staging area at the time it is run. It is performed before a commit.

Git commit - a commit is a snapshot of a given git repository at one point in time. It records the changes to the repository

Git push - this is used to push the user changes made on the local repository to the remote repository.

Git fetch - downloads all the branches, tags and data from a remote repository to the local machine

Git merge - integrates the changes from multiple branches to the main branch

Git pull - updates your local clone of a git repository with any changes from the remote repository. It is a combination of git fetch and git merge.