**Git**

1. Suppose you had a file, called first.md, and you made a copy of this file, named it second.md and made some changes to it. Next, suppose you ran diff -u first.md second.md.

Here is the content of the original first.md

A

B

C

D

E

F

Here is the output of the diff command:

Text

Description automatically generated with low confidenceWhat is the content of second.md?

AB$C#%EF

1. (True or False) If you accidentally add a file to the staging area, you can remove it using git reset. For example, if you accidentally add thrid.md, but don’t want it to be committed yet, run git reset thrid.md and the file will be removed from the staging area, **but it will still be in your working directory**. T
2. (True or False) The commands git reset and git revert can only be used to undo commits in the git repository. F

*Git reset can both unstage changes and undo commit. Git revert is used to create a new commit to undo the changes to the previous commit.*

1. (True or False) The commands git checkout can be used to roll back to a certain commit hash (check the documentation if you are unsure). T

*The git checkout command can be used to switch to a specific commit by its hash, although in newer versions of Git, git switch is recommended for changing branches or commits.*

1. (True or False) We cannot commit changes in the working directory directly to the repo without adding it to the staging index first (read the documentation if you are unsure). T
2. (True or False) git log -p and git log will give you the same output. F

*git log -p shows the commit history along with the differences introduced in each commit, while git log only shows the commit messages.*

1. (True or False) git log --oneline and git log --stat will give you the same output. F

*git log --oneline gives a brief, one-line summary of each commit, while git log --stat provides a more detailed output including statistics about changes made in each commit.*

1. (True or False) It is recommended that in most cases we should use git revert rather than git reset to undo commits because git revert is safer. T