

Course Assessment Test

Course Title	Git Essentials	Date	
Name		Dept	

- 1) This assessment test is to be given out before course commencement. Answers are to be filled in column entitled "Pre-Course Answer"
- 2) At the end of the course, the same assessment sheet is to be given out where answers are to be filled in column entitled "Post-Course Answer". Instructor will then share the answers and participants need to total the score in both "Pre" and "Post" columns through self-marking.
- 3) Assessment sheets will be collected for filling.

No	Question	Pre-Course Answer	Post-Course Answer
1	Identify the components that can be found in a commit based on the Git object model i. Pointer to a tree ii. Pointer to a branch iii. Pointer to a parent commit iv. Pointer to a tag a) Items i) and ii) b) Items i) and iii) c) Items ii) and iii) d) Items i), ii) and iii)		B
2	Which of the following commands show the commit history of the current branch ? a) git commit show history b) git commit history c) git log d) git history		C
3	What does the following command accomplish? <code>git commit -am "Hi there"</code> a) Stages and commits changes in tracked files in the working directory b) Adds a message "Hi there" to the most recent commit in the current branch		A

	<div><div>c) Overrides the existing message in the most recent commit in the current branch with "Hi there"</div><div>d) Selects a staged change that has the message "Hi there" and commits it</div></div>														
4	<div><div>Consider the output of the <code>git diff</code> command that is run in a working directory consisting of a single file <code>stuff.txt</code>.</div><div><pre>diff --git a/stuff.txt b/stuff.txt index 9396493..bfa8716 100644 --- a/stuff.txt +++ b/stuff.txt @@ -1,3 +1,3 @@ -1: honda +1: mazda 2: mercedes -3: proton +3: perodua</pre></div><div>Which of the following combinations below show correctly the original contents of this file and the unstaged changes made to it before the <code>git diff</code> command is executed ?</div><div>Combination a)</div><div><table><tr><th>Original content</th><th>After unstaged changes</th></tr><tr><td>honda mazda mercedes proton perodua</td><td>mazda perodua</td></tr></table></div><div>Combination b)</div><div><table><tr><th>Original content</th><th>After unstaged changes</th></tr><tr><td>honda mercedes proton</td><td>mazda mercedes perodua</td></tr></table></div><div>Combination c)</div><div><table><tr><th>Original content</th><th>After unstaged changes</th></tr><tr><td>1: honda 1: mazda 2: mercedes 3: proton 3: perodua</td><td>1: mazda 2: mercedes 3: perodua</td></tr></table></div></div>	Original content	After unstaged changes	honda mazda mercedes proton perodua	mazda perodua	Original content	After unstaged changes	honda mercedes proton	mazda mercedes perodua	Original content	After unstaged changes	1: honda 1: mazda 2: mercedes 3: proton 3: perodua	1: mazda 2: mercedes 3: perodua		D
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	<div>Combination d)</div> <table><tr><th>Original content</th><th>After unstaged changes</th></tr><tr><td>1: honda 2: mercedes 3: proton</td><td>1: mazda 2: mercedes 3: perodua</td></tr></table>	Original content	After unstaged changes	1: honda 2: mercedes 3: proton	1: mazda 2: mercedes 3: perodua		
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5	<div>Which of the following commands will change staged changes in a file <code>stuff.txt</code> so that they become unstaged ?</div> <div><div>i. <code>git reset --mixed stuff.txt</code> ii. <code>git reset --hard stuff.txt</code> iii. <code>git restore --staged stuff.txt</code> iv. <code>git checkout HEAD stuff.txt</code></div><div>a) Either i) or ii) b) Either i) or iii) c) Either ii) or iii) d) Either ii) or iv)</div></div>		B				
6	<div>The current branch in a Git repo is <code>mystuff</code> and there is also another branch called <code>yourstuff</code>. Consider the output from this command:</div> <div><pre>\$ git merge yourstuff Auto-merging somefile.txt CONFLICT (content): Merge conflict in somefile.txt Automatic merge failed; fix conflicts and then commit the result.</pre></div> <div>What kind of merge occurred here?</div> <div>a) Fast forward merge b) Conflict resolution merge c) 3-way merge d) Auto merge</div>		C				
7	<div>The command <code>git remote show origin</code> provides information on all the following items EXCEPT:</div> <div>a) The latest commit on the active branch in the linked remote repo b) The complete fetch URL for all remote repos linked to the current local repo c) The complete push URL for all remote repos linked to the current local repo d) The local branches which are in a tracking relationship with the upstream branches</div>		A				

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8	<p>We have created a new commit on the local <code>master</code> branch as well as on the upstream <code>master</code> branch, with both commits having conflicting content. What will happen if we issue the <code>git push</code> command in the local repo with the current local branch being <code>master</code> ?</p> <ul style="list-style-type: none"> a) Git will perform the push operation while warning us about the potential conflict and provide a URL redirecting us to the remote repo where we can manually resolve it b) Git will perform the push operation without warning us about the potential conflict and automatically overwrite the commit content of the upstream branch with the content from the local commit c) Git will warn us that the push operation will cause a potential conflict, then pull the remote commit to the local repo and request us to manually resolve it d) Git will warn us that updates were rejected because the tip of the current branch is behind its remote counter part and refuse to perform the operation 		D
9	<p>We have just created a new branch <code>coolstuff</code> in a local repo which is linked to a remote repo with the handle <code>origin</code>. Identify the command to be used to create a new upstream branch that is tracked by this local branch.</p> <ul style="list-style-type: none"> a) <code>git push --set-tracking origin coolstuff</code> b) <code>git push --set-upstream origin coolstuff</code> c) <code>git branch --set-tracking origin coolstuff</code> d) <code>git branch --set-tracking --new-branch origin coolstuff</code> 		B
10	<p>Which of the following commands will help us to remove stale (outdated) remote tracking branches in the local repo that reference upstream branches which have already been deleted ?</p> <ul style="list-style-type: none"> i. <code>git remote prune origin</code> ii. <code>git fetch --prune</code> iii. <code>git branch --update origin</code> iv. <code>git push --update origin</code> <ul style="list-style-type: none"> a) Either i) or ii) b) Either i) or iii) c) Either ii) or iii) d) Either iii) or iv) 		A
Total			

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