CSPB 3308 Summer 2024 - Nath - Software Development Methods and Tools

<u>Dashboard</u> / My courses / <u>2244:CSPB 3308</u> / <u>9 June - 15 June</u> / <u>Knowledge Test: Version Control Review Quiz</u>

Started on	Thursday, 13 June 2024, 7:45 PM
State	Finished
Completed on	Thursday, 13 June 2024, 7:50 PM
Time taken	5 mins 31 secs
Grade	10.00 out of 10.00 (100 %)

Ouestion 1

Correct

Mark 2.00 out of 2.00

Please match the following git commands with the best description of the function/purpose of that command.



Your answer is correct.

The correct answer is: git checkout \rightarrow moves the HEAD pointer to a different branch making that branch active, git diff \rightarrow compares two versions of a git-managed file, git log \rightarrow shows a record of recent commits, git init \rightarrow creates an empty local repository, git add \rightarrow stages a file under git tracking making it ready for a commit, git commit \rightarrow copies a staged file into the local git repository

Question **2**Correct

Mark 1.00 out of 1.00

The Git clone command does which of the following?
a. Creates a working directory
b. Makes a local copy of the repository
c. Commits a new branch
o d. a and b
e. a, b, and c
Your answer is correct.
The correct answer is: a and b
Question 3 Correct Mark 1.00 out of 1.00
Git needs to connect to a server to commit changes.
Select one:
○ True
O False ✓
Correct. The Git will commit to your local repository and you would use push to copy your local commits to a remote server
Git is distributed, there is no central repository
The correct answer is 'False'.

Question 4
Correct
Mark 1.00 out of 1.00
git uses a hash to uniquely identify commits.
Select one:
○ True ✓
☐ False
You can see the commit comments and the unique identifier for each commit using the git log command.
The correct answer is 'True'.
Question 5
Correct
Mark 1.00 out of 1.00
After you initialize your repository with git init, git automatically tracks every file in the repository.
Select one:
True
• False ✓
You have to tell git which files to track.
The correct answer is 'False'.
Question 6
Correct
Mark 1.00 out of 1.00
The command patch patches bugs in your files.
Select one:
True
● False ✔
Watch the first vides shout varsion control
Watch the first video about version control.
The correct answer is 'False'.

24	4, 7:50 PM	Know
	Question 7	
	Correct	
	Mark 1.00 out of 1.00	
	main is a special branch marking where you are righ	t now.
	Select one:	
	True	
	● False ✓	
	When working with Git, only one branch can be che	ecked

g with Git, only one branch can be checked out at a time. **HEAD** is the special name that points to the "active" or "current" branch. The main branch is usually used is the "main" branch or trunk of the tree. All other branches will eventually flow back into the main branch.

The correct answer is 'False'.

Question 8

Correct

Mark 1.00 out of 1.00

Now, imagine that you have a local repository, but other team members have pushed changes into the remote repository. What Git operation would you use to download those changes into your working copy?

	a. checkout	
•	b. pull	~
	c. export	
	d. import	
	e. update	
	f. commit	
	Your answer is correct.	
	The correct answer is: pull	

Question 9

Correct

Mark 1.00 out of 1.00

Why would you use a git **branch**? Select all the appropriate reasons below.

Select one or more:

~	a. Isolation of work: By working on a separate branch, you can make changes to your code without affecting the main codebase, allowing you to experiment and try out new ideas without risking breaking anything.	~
	b. Different Projects: to keep the project code separated from code for other projects, each branch would support a different project.	
~	c. Bug fixes: You can create a new branch to fix a bug and then merge that branch back into the main branch, without affecting the other development that is going on.	~
	d. Creating Backups: create branches to keep each version of the code separated from development by other project members.	
*	e. Feature development: You can create a new branch to develop a new feature, test it and merge it back to the main branch after it is completed.	~
V	f. Release management: Branches can be used to manage different versions of a codebase. For example, you might have a "development" branch where new features are added, and a "release" branch where only stable versions of the code are kept.	~
V	g. Collaboration: Branches can be shared with other developers, who can then make their own changes and submit them back to the main branch via a pull request. This makes it easy to collaborate on a project without stepping on each other's toes.	~
	h. Personal Version: Keeping a local copy of the repository for development outside of the project that others will not change.	

Your answer is correct.

Isolation of work: By working on a separate branch, you can make changes to your code without affecting the main codebase, allowing you to experiment and try out new ideas without risking breaking anything.

Collaboration: Branches can be shared with other developers, who can then make their own changes and submit them back to the main branch via a pull request. This makes it easy to collaborate on a project without stepping on each other's toes.

Release management: Branches can be used to manage different versions of a codebase. For example, you might have a "development" branch where new features are added, and a "release" branch where only stable versions of the code are kept.

Bug fixes: You can create a new branch to fix a bug and then merge that branch back into the main branch, without affecting the other development that is going on.

Feature development: You can create a new branch to develop a new feature, test it and merge it back to the main branch after it is completed.

The correct answers are: Isolation of work: By working on a separate branch, you can make changes to your code without affecting the main codebase, allowing you to experiment and try out new ideas without risking breaking anything., Collaboration: Branches can be shared with other developers, who can then make their own changes and submit them back to the main branch via a pull request. This makes it easy to collaborate on a project without stepping on each other's toes., Release management: Branches can be used to manage different versions of a codebase. For example, you might have a "development" branch where new features are added, and a "release" branch where only stable versions of the code are kept., Bug fixes: You can create a new branch to fix a bug and then merge that branch back into the main branch, without affecting the other development that is going on., Feature development: You can create a new branch to develop a new feature, test it and merge it back to the main branch after it is completed.