Basic Git Questions:

1. What is a version control system (VCS)?

2. What is a git repository?

3. What does git clone do?

4. What does the command git config do?

5. What is a conflict?

6. What does git status command do?

7. Define “Index”.

8. What does git add command do?

9. Complete Lessons 1 through 4 in section marked "Introduction Sequence" at the following link:

<https://learngitbranching.js.org/?locale=en_US>

Answers

1. A version control system are software tools that help software teams manage changes to source code over time.

2. A git repository - A Git repository tracks and saves this data in a directory called git, also known as the repository folder. Git uses a version control system to track all changes made to the project and save them in the repository.

3. Git clone used to point to an existing repo and make a clone or copy of that repot at in a new directory, at another location. The git clone command copies an exisiting Git repository.

4. The command git config is used to query or set configuration options for git.

5. A conflict arises when two seperate branches have made edits to the same line in a file, or when a file has been deleted in one branch but edited in the other.

6. The git status command displays the state of the working directory and the staging area. It lets you see which changes have been staged, which haven't and which files aren't being tracked by Git.

7. Index in git - is a critical data structure in git. It serves as the "staging area" between the files you have on your file system and your commit history. When you run git add, the files from your working directory are hashed and stored as objects in the index, leading them to be "staged changes"

8.The git add command adds a change in the working directory to the staging area. It tells Git that you want to include updates to a particular file in the next commit.

Learning Git Branch completion

