

IoT Chapter 3 Assignment

Multiple Choice Questions

1. What is version control?
 - a) A method to monitor software usage
 - b) A tool to track changes in software development
 - c) A programming language
 - d) An operating system
2. Who developed Git?
 - a) Mark Zuckerberg
 - b) Bill Gates
 - c) Linus Torvalds
 - d) Steve Jobs
3. Which version control system was developed for the Linux kernel project?
 - a) SVN
 - b) Mercurial
 - c) Git
 - d) CVS
4. Which of the following is NOT a GitHub terminology?
 - a) Push
 - b) Pull Request
 - c) Fork
 - d) Compile

5. What does a Git 'commit' represent?

- a) A temporary change in the code
- b) A saved change in the repository**
- c) A deletion of code
- d) An undo action

6. Which of the following is the correct order of operations in Git?

- a) Edit -> Commit -> Stage -> Push
- b) Stage -> Edit -> Commit -> Push
- c) Edit -> Stage -> Commit -> Push**
- d) Commit -> Stage -> Edit -> Push

7. Which of the following is true about a centralized version control system?

- a) Every developer has a copy of the entire codebase
- b) The version history is maintained on a central server**
- c) Changes are made directly on the main branch
- d) It does not require an internet connection

8. What is the purpose of the staging area in Git?

- a) To permanently save changes
- b) To review changes before committing**
- c) To delete unwanted changes
- d) To push changes to the remote repository

9. What is the 'master' branch in Git?

- a) A feature branch for experimental code
- b) The default branch where the final version of code resides**
- c) A backup branch
- d) A deleted branch

10. Which command would you use to initialize a new Git repository?

- a) git init
- b) git start
- c) git create
- d) git repo

True/False Questions With Explanation

1. Version control is only useful for large software projects. F
2. A 'fork' in GitHub permanently separates your copy of a repository from the original. F
3. A 'pull request' is used to request the deletion of a repository. F
4. A 'remote repository' is stored on your local machine. F
5. The 'clone' operation in Git creates a new branch. F
6. Git can only be used for code versioning, not for documents or other files. F
7. The 'init' command in Git is used to start tracking an existing repository. F
8. In a centralized version control system, all changes are made directly on the central server. T
9. A 'branch' in Git is a parallel version of the main repository. T
10. A 'commit' in Git is identified by a unique hash. T