**prep week: git basics**

The following exercise contains the following subjects:

● git and github basics

**Instructions**

answer:

1. What is Git?

2. What is a repository in Git?

3. What is the purpose of version control?

4. What is a commit in Git?

5. What is a branch in Git?

6. What is a merge in Git?

7. What is a pull request on GitHub?

8. What is a remote in Git?

9. What is a Git workflow?

10. What is the purpose of the "git clone" command?

11. What does "git pull" do?

12. What is the "git push" command used for?

13. What is a merge conflict?

14. What is the purpose of a ".gitignore" file?

15. What is a README file in a repository?

16. What is the purpose of a "fork" on GitHub?

17. What is the difference between "git merge" and "git rebase"?

18. What is the purpose of a "git branch" command?

19. What does the term "origin" refer to in Git?

20. How can you undo the last commit without losing changes?

21. What is a "git stash"?

22. What is the difference between a "pull request" and a "merge request"?

23. How do you resolve a merge conflict?

24. What is the purpose of a "git tag"?

25. How can you create a new branch and switch to it in a single command?

26. What does the "HEAD" pointer represent in Git?

27. What is the purpose of the "git log" command?

28. How do you revert a commit using "git revert"?

29. What is the difference between a "public" repository and a "private" repository on GitHub?

30. What is the advantage of using a version control system like Git in a collaborative project?