****CS445 - Lab 1 Collaborative Git****

1. Github Setup – create a github repository for daily lab
2. What you need to submit for this lab
   1. Create a .md file for Lab1
   2. Inside the .md file includes all screenshots when you practice the commands below
3. Markdown study: [https://guides.github.com/features/mastering-markdown/](https://guides.github.com/features/mastering-markdown/" \t "/Users/queena/Documents\\x/_blank)
4. Markdown for images: [https://www.markdownguide.org/basic-syntax/#images-1](https://www.markdownguide.org/basic-syntax/" \l "images-1" \t "/Users/queena/Documents\\x/_blank)

****[4 points] Exercise 1: Practice with all the local repository commands from the slides:****

1. git init
2. git status
3. git diff
4. git add
5. git commit
6. git commit –amend (updating the last commit)
7. git log
8. git show
9. git tag
10. git restore
11. git branch
12. git checkout
13. git merge
14. Create a conflict and solve the conflict
15. Undo changes from a certain commit git revert
16. Erase commits with git reset

****[2 points] Exercise 2:** **Practice with all the remote repository commands from the slides:****

1. Create a remote repository
2. Create README.md
3. Add at least 5 markdown syntax (For example: Headers, Bold, Code, Unordered List, Links) [Cheatsheet](https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet" \t "/Users/queena/Documents\\x/_blank)
4. git remote
5. git clone
6. git push
7. git fetch
8. git pull

****[4 points] Exercise 3:** **Practice with all the third party repositories commands from the slides:****

Assume we are working with the following upstream: https://github.com/bellaxing/CS445-May2021-Lab1

1. Star the repository
2. Watch the repository for any changes
3. Fork the repository
4. Clone your forked repository into your local machine
5. Create a new topic branch named using studentId-studentName, For example: 610001-JohnSmith
6. Checkout your new branch
7. Add a new file with your name, example: hello.js
8. Commit the changes
9. Merge your studentId-studentName branch with the main branch
10. Push your changes to the remote repo
11. Create a new Pull Request to the upstream repo

****What you need to submit:****

****1. Write a status about your homework, such as how much percentage you finish in this homework, etc****

****2. Copy and paste your github link for this Lab1****

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