VERSION CONTROL SYSTEM

Git & GitHub

Prepared By: Riyaz Ul Haque
Software Engineer

CONSULTADD INC

Exercise 1: Create your first Commit.

Task:

- Initialize your Repository: git init project Exercise-1

- Create a file with name index.html

- Write code in newly created file

- Stage index.html

- Commit with message '**Initial Message**.'

consultadd

Exercise 2: Commit only one file.

Task:

- Initialize your Repository: git init Exercise-2

- Create a files with names index.html and about.html

- Add code in both files.

- Stage only one file.

- Commit with message: '**File x added**.'

consultadd

Exercise 3: Modify last commit.

Task:

- Initialize your Repository: git init project Exercise-3

- Create a file with name index.html

- Write code in newly created file

- Stage index.html

- Commit with message 'adding index.html.'

- Add new about.html file with some code.

- Now modify message of previous commit as 'Adding index.html and about.html 'and add about.html file in previous commit.

Exercise 4: Create git ignore file

Task:

- Initialize your Repository: git init Exercise-4

- Create a gitignore file that will ignore

    - all files with 'exe' extension

    - all files with 'o' extension

    - all files with 'jar' extension

    - the whole libraries directory

Exercise 5: Save your work with stash.

Task:

- Initialize your Repository: git init Exercise-5

- Add some random files with code

- Now use git stash command to save required files from above files.

(For this exercise don't send repository just submit git commands and output of

git stash list)

consultadd

Exercise 6: Reset Previous Commit Keeping changes. (Soft Reset)

Task:

- Initialize your Repository: git init Exercise-6.

- Do some series of commits.

- Now use git reset command to reset one of the commit and keep changes in staging area.

In answer also add output of git status command.

Exercise 7: Reset Previous Commit (Hard Reset).

Task:

- Initialize your Repository: git init Exercise-7.

- Do some series of commits.

- Use git reset command to reset one of the commit without keeping changes.

Exercise 8: Merge branch (No Conflicts).

Task:

- Initialize your Repository: git init Exercise-8

- Create index.html file add some code.

- Make Commit.

- Create new branch from master branch with name **my-feature**.

- Add about-us.html file with code and commit changes in my-feature

  branch.

- Now checkout master branch.

- Merge my-feature branch into master.

Exercise 9: Merge branch (Conflicts).

Task:

- Initialize your Repository: git init Exercise-9

- Create index.html file add some code.

- Make Commit.

- Create new branch from master branch with name my-feature.

- Add about-us.html file with code

- Make changes in index.html

- Commit changes in my-feature branch.

- Now checkout master branch.

- Do some code changes in index.html

- Commit changes.

- Now merge my-feature branch into master.

- You will get conflicts for index.html file. Resolve conflict by selecting both changes for the same index.html file.

1- https://www.katacoda.com/courses/git

2- https://learngitbranching.js.org/

NOTE: Please go through the above link to complete the exercise in a much more visual way on the Version Control System.

The recommended way is to complete the first one first.

consultadd

This is just an estimation, please complete at your ease

Levels Assignment	Time in Minutes		
	Beginner	Intermediate	Expert
Exercise-1	15	10	5
Exercise-2	15	10	5
Exercise-3	30	20	15
Exercise-4	5	5	5
Exercise-5	25-30	20	15
Exercise-6	45	30	30
Exercise-7	45	30	30
Exercise-8	60	45	45
Exercise-9	90	60	60
Total Time	**5.08 HRs**	**3.83 HRs**	**3.5 HRs**

#consultadd
#consultaddtraining

https://www.facebook.com/ConsultADD/

https://www.instagram.com/consultadddinc/

https://www.linkedin.com/company/consultadd-inc

https://www.youtube.com/consultaddinc