Assignment 1 Solution

Introduction

The goal of this assignment is to consolidate skills related to concepts learned in Module 1 and Module 2. In this assignment, the student is expected to do hands-on in the following areas:

- Basics of GitHub operations such as
  - Fork and
  - Clone
- Basic Git operation such as
  - Git Commit and
  - Git Status
- Basics of Git Branches

Solution statement with steps

```
#################### STEP-1
# [1] Create a GitHub account.
# [2] Fork the repo sample-java-project in GitHub.
# [3] Copy clone URL for the forked repo in GitHub.


#################### STEP-2
# Run the Clone command to clone the repo.
$ git clone https://github.com/bibroy/sample-java-project

# Change to the directory sample-java-project folder.
$ cd sample-java-project/

# List out the files and folders inside the repo.
$ ls

# list out the .git folder (note: .git is a hidden folder).
$ ls -al

#################### STEP-3
# edit README.md file.
$ vi README.md
```

check status using both long and short option ("-s")
$ **git status**
$ **git status -s**

Add the README.md file to the staging area.
$ **git add README.md**

check status using both long and short option ("-s")
$ **git status**
$ **git status -s**

Commit your changes.
$ **git commit -m "commit 1"**

Edit the README.md again.
$ **vi README.md**

Now do an express commit.
$ **git commit -am "commit 2"**

#################### **STEP-4**

check status using both long and short option ("-s")
$ **git status**
$ **git status -s**

Run the default command without any options.
$ **git log**

Run the default command with "--oneline" option.
$ **git log --oneline**

Run the command to display the last 5 recent commits.
$ **git log -n 5 --oneline**

#################### **STEP-5**

Run command to display all the existing Git Branches.
$ **git branch**

Create a branch named “branch1”.
$ **git branch branch1**

display all the existing Git Branches. Confirm the branch “branch 1” was created.
$ **git branch**

checkout the branch “branch1”.

$ **git checkout branch1**

display the commit history for branch “branch1”.
$ **git log --oneline**

Now checkout to master branch.
$ **git checkout master**

display the commit history for the master branch.
$ **git log --oneline**