Git 1-on-1 Assignment

Name Sileshi Adal

Here is the list of commands that I have used to test out all the
given and learned GIT commands in the assignment. I also attach
the screenshots from my GIT Console command history.

Commands and operations to do :
* Configure GIT Terminal (git config)

```
Sileshi-MacBook:~ sileshi$ cd Desktop/
Sileshi-MacBook:Desktop sileshi$ cd Asignment_One
Sileshi-MacBook:Asignment_One sileshi$ git init
Initialized empty Git repository in /Users/sileshi/Desktop/Asignment_One/.git/
Sileshi-MacBook:Asignment_One sileshi$
```

```
303  which git
304  git --version
305  git config --global user.email "sileshi.ziena2@gmail.com
306  git config --global user.name "Sileshi-Adal"
307  pwd
```

* Create at least one GIT repository and 2 branches

```
Sileshi-MacBook:Assignment_One sileshi$ git log --all --decorate --oneline --graph
* 3d225ff (HEAD -> BranchOne, master) edited on BranchOne
* 438012e (BranchTwo) just for first commit
Sileshi-MacBook:Assignment_One sileshi$ git branch -a
* BranchOne
  BranchTwo
  master
Sileshi-MacBook:Assignment_One sileshi$
```

Commands to use:
* add (one, multiple, all)

```
Sileshi-MacBook:Assignment_One sileshi$ git status
On branch BranchOne
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   ReadMe2.txt
        modified:   branchone.txt
        modified:   readme.txt

Sileshi-MacBook:Assignment_One sileshi$ git add -A
Sileshi-MacBook:Assignment_One sileshi$ git status
On branch BranchOne
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

        modified:   ReadMe2.txt
        modified:   branchone.txt
        modified:   readme.txt

Sileshi-MacBook:Assignment_One sileshi$
```

* commit

```
Sileshi-MacBook:Assignment_One sileshi$ git commit -m "just for first commit"
[master (root-commit) 438012e] just for first commit
 2 files changed, 2 insertions(+)
 create mode 100644 ReadMe2.txt
 create mode 100644 readme.txt
```

* checkout

```
[Sileshi-MacBook:Assignment_One sileshi$ git checkout BranchOne
Already on 'BranchOne'
[Sileshi-MacBook:Assignment_One sileshi$ git checkout master
Switched to branch 'master'
Sileshi-MacBook:Assignment_One sileshi$
```

* branch

```
Sileshi-MacBook:Assignment_One sileshi$ git branch BranchOne
Sileshi-MacBook:Assignment_One sileshi$ git branch BranchTwo
Sileshi-MacBook:Assignment_One sileshi$ git checkout Branchone
Switched to branch 'Branchone'
Sileshi-MacBook:Assignment_One sileshi$ git checkout BranchTwo
Switched to branch 'BranchTwo'
```

* clone

```
[Sileshi-MacBook:~ sileshi$ cd Desktop/
[Sileshi-MacBook:Desktop sileshi$ git clone https://github.com/Sileshi-Adal/GitML.git
 Cloning into 'GitML'...
 warning: You appear to have cloned an empty repository.
 Sileshi-MacBook:Desktop sileshi$
```

* fetch

```
[Sileshi-MacBook:GitML sileshi$ git fetch
 warning: no common commits
 remote: Enumerating objects: 3, done.
 remote: Counting objects: 100% (3/3), done.
 remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
 Unpacking objects: 100% (3/3), done.
 From https://github.com/Sileshi-Adal/GitML
  * [new branch]      master     -> origin/master
[Sileshi-MacBook:GitML sileshi$ git push orign/master
 fatal: 'orign/master' does not appear to be a git repository
 fatal: Could not read from remote repository.
```

* Fork
* HEAD

```
Sileshi-MacBook:Assignment_One sileshi$ cat .git/HEAD
ref: refs/heads/BranchOne
Sileshi-MacBook:Assignment_One sileshi$ git checkout master
Switched to branch 'master'
Sileshi-MacBook:Assignment_One sileshi$ cat .git/HEAD
ref: refs/heads/master
Sileshi-MacBook:Assignment_One sileshi$
```

* merge

```
Sileshi-MacBook:Assignment_One sileshi$ git diff master..BranchOne
diff --git a/branchone.txt b/branchone.txt
new file mode 100644
index 0000000..8c5c760
--- /dev/null
+++ b/branchone.txt
@@ -0,0 +1 @@
+here i edit branch.txt on branchOne
Sileshi-MacBook:Assignment_One sileshi$ git merge BranchOne
Updating 438012e..3d225ff
Fast-forward
 branchone.txt | 1 +
 1 file changed, 1 insertion(+)
```

*push (to remote)

```
[Sileshi-MacBook:GitML sileshi$ git push -u  origin master
To https://github.com/Sileshi-Adal/GitML.git
 ! [rejected]        master -> master (non-fast-forward)
error: failed to push some refs to 'https://github.com/Sileshi-Adal/GitML.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
Sileshi-MacBook:GitML sileshi$
```

*git pull

```
[Sileshi-MacBook:GitML sileshi$ git pull
 fatal: refusing to merge unrelated histories
[Sileshi-MacBook:GitML sileshi$ git pull
 fatal: refusing to merge unrelated histories
[Sileshi-MacBook:GitML sileshi$ git status
 On branch master
 Your branch and 'origin/master' have diverged,
 and have 1 and 1 different commits each, respectively.
   (use "git pull" to merge the remote branch into yours)
```

* Log

```
Sileshi-MacBook:Assignment_One sileshi$ git log
commit 3bad7636a89b65a3ce97782cb14b91caedfb8af8 (HEAD -> BranchOne)
Author: Sileshi Adal <sileshi.adal@integrify.io>
Date:   Mon Jun 10 23:32:39 2019 +0300

    branch.txt edited

commit 3d225ffac4ac4e10cbf9f50db6ae3df6679851f4 (master)
Author: Sileshi Adal <sileshi.adal@integrify.io>
Date:   Mon Jun 10 13:51:12 2019 +0300

    edited on BranchOne

commit 438012e4102471b9a3af2937af1aa16a08b12fd9 (BranchTwo)
Author: Sileshi Adal <sileshi.adal@integrify.io>
Date:   Mon Jun 10 11:52:27 2019 +0300

    just for first commit
Sileshi-MacBook:Assignment_One sileshi$
```

* status

```
[Sileshi-MacBook:Assignment_One sileshi$ git status
On branch BranchOne
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   branchone.txt

no changes added to commit (use "git add" and/or "git commit -a")
[Sileshi-MacBook:Assignment_One sileshi$ git add branchone.txt
```

*git log --all --decorate --oneline --graph

```
[Sileshi-MacBook:Desktop sileshi$ cd Assignment_One/
[Sileshi-MacBook:Assignment_One sileshi$ git log --all --decorate --oneline --graph
* 3bad763 (HEAD -> BranchOne) branch.txt edited
* 3d225ff (master) edited on BranchOne
* 438012e (BranchTwo) just for first commit
Sileshi-MacBook:Assignment_One sileshi$
```