Git Assignment 1

By: Alhan Kaypour

Q1:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop
$ git --version
git version 2.35.3.windows.1

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop
$ |
```

Q2:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop
$ mkdir project

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop
$ cd project

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project
$ git init
Initialized empty Git repository in C:/Users/Alhan/Desktop/project/.git/

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ |
```

Q3:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git config --global user.name 'Alhan.K'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git config --global user.name
Alhan.K

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ |
```

Q4:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git status
On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track)
```

Q5, 6, 7, 8:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git add index.html

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git add .

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git commit -m "First Release!"
[master 9f3375e] First Release!
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 index.html

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git status
On branch master
nothing to commit, working tree clean

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git log
commit 9f3375e58739016ff9d62ff6a45286639b462537 (HEAD -> master)
Author: Alhan.K <alhan.kaypour@gmail.com>
Date:   Fri May 13 13:05:37 2022 +0430

    First Release!
```

Q9:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git commit -a -m "Commited"
On branch master
nothing to commit, working tree clean

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ |
```

Q10:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git log
commit 9f3375e58739016ff9d62ff6a45286639b462537 (HEAD -> master)
Author: Alhan.K <alhan.kaypour@gmail.com>
Date:   Fri May 13 13:05:37 2022 +0430

    First Release!

commit 1728afb207d3da6f71eab9ff4ac7317f882ead69
Author: Alhan.K <alhan.kaypour@gmail.com>
Date:   Fri May 13 12:45:05 2022 +0430

    project.html has been created
```

Q11:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git help -a
See 'git help <command>' to read about a specific subcommand

Main Porcelain Commands
   add               Add file contents to the index
   am                Apply a series of patches from a mailbox
   archive           Create an archive of files from a named tree
   bisect            Use binary search to find the commit that introduced a bug
   branch            List, create, or delete branches
   bundle            Move objects and refs by archive
   checkout          Switch branches or restore working tree files
   cherry-pick       Apply the changes introduced by some existing commits
   citool            Graphical alternative to git-commit
   clean             Remove untracked files from the working tree
   clone             Clone a repository into a new directory
   commit            Record changes to the repository
   describe          Give an object a human readable name based on an available ref
   diff              Show changes between commits, commit and working tree, etc
   fetch             Download objects and refs from another repository
   format-patch      Prepare patches for e-mail submission
   gc                Cleanup unnecessary files and optimize the local repository
   gitk              The Git repository browser
   grep              Print lines matching a pattern
   gui               A portable graphical interface to Git
   init              Create an empty Git repository or reinitialize an existing one
   log               Show commit logs
   maintenance       Run tasks to optimize Git repository data
   merge             Join two or more development histories together
   mv                Move or rename a file, a directory, or a symlink
   notes             Add or inspect object notes
   pull              Fetch from and integrate with another repository or a local branch
:...skipping...
See 'git help <command>' to read about a specific subcommand

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   clone             Clone a repository into a new directory
   commit            Record changes to the repository
```

⇨ and so on…

Q12, 13, 14:

```
:
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git branch hello-world-images

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git branch
  hello-world-images
* master

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git checkout <hello-world-images>
bash: syntax error near unexpected token `newline'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git checkout 'hello-world-images'
Switched to branch 'hello-world-images'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-world-images)
$ |
```

Q15:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-world-images)
$ git branch hello-Alhan

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-world-images)
$ git checkout 'hello-Alhan'
Switched to branch 'hello-Alhan'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-Alhan)
$ |
```

Q16:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-Alhan)
$ git checkout 'hello-Alhan'
Already on 'hello-Alhan'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-Alhan)
$ git merge 'hello-world-images'
Already up to date.

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-Alhan)
$
```

Q17:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (hello-Alhan)
$ git checkout master
Switched to branch 'master'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git branch
  hello-Alhan
  hello-world-images
* master

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git branch -d 'hello-Alhan'
Deleted branch hello-Alhan (was 9f3375e).

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$ git branch
  hello-world-images
* master

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (master)
$
```

Q18:

```
[core]
        repositoryformatversion = 0
        filemode = false
        bare = false
        logallrefupdates = true
        symlinks = false
        ignorecase = true
[remote "origin"]
        url = https://github.com/AlhaN-K/DevOps.git
        fetch = +refs/heads/*:refs/remotes/origin/*
~
~
~
```

Q19:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git pull origin main
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 676 bytes | 84.00 KiB/s, done.
From https://github.com/AlhaN-K/DevOps
 * branch            main       -> FETCH_HEAD
   9f3375e..b612192  main       -> origin/main
Updating 9f3375e..b612192
Fast-forward
 README.md | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```

This command will fetch and update only a specific branch called master and origin in the remote repository.

Q20:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git branch
* main
  new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git checkout new-branch
Switched to branch 'new-branch'
M       index.html

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git add -A

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git commit -m "some changes"
[new-branch d5d1ea2] some changes
 1 file changed, 2 insertions(+)

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git merge new-branch
Updating b612192..d5d1ea2
Fast-forward
 index.html | 2 ++
 1 file changed, 2 insertions(+)

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ |
```

Q21:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git pull origin new-branch
fatal: couldn't find remote ref new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git pull origin main
From https://github.com/AlhaN-K/DevOps
 * branch            main       -> FETCH_HEAD
Already up to date.

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git pull
Already up to date.
```

Q22:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git checkout new-branch
Switched to branch 'new-branch'

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git push -u origin new-branch
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 326 bytes | 326.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'new-branch' on GitHub by visiting:
remote:      https://github.com/AlhaN-K/DevOps/pull/new/new-branch
remote:
To https://github.com/AlhaN-K/DevOps.git
 * [new branch]      new-branch -> new-branch
branch 'new-branch' set up to track 'origin/new-branch'.

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$
```

Q23:

```
Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git branch -a
  main
* new-branch
  remotes/origin/main
  remotes/origin/new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$
```

Q24:

```
  remotes/origin/new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$ git branch -r
  origin/main
  origin/new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (new-branch)
$
```

Q25:

```
  remotes/origin/new-branch

Alhan@DESKTOP-SL1HUR1 MINGW64 ~/Desktop/project (main)
$ git clone https://abc.com/x/y.git[B
Cloning into 'y.git[B'...
```