Git & GitHub Project

1. Create a folder called learn_git.
2. Cd (change directory) into the learn_git folder.
3. Create a file called third.txt.
4. Initialize an empty git repository.
5. Add third.txt to the staging area.
6. Commit with the message "adding third.txt".
7. Check out your commit with git log.
8. Create another file called fourth.txt.
9. Add fourth.txt to the staging area.

```
Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop (master)
$ cd 'Git Checkpoint'/

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint (master)
$ mkdir learn_git

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint (master)
$ cd learn_git

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ touch third.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git init
Initialized empty Git repository in C:/Users/Med Ali Bouchnak/Desktop/Git Checkp
oint/learn_git/.git/

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git add .

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git commit -m 'adding third.txt'
[master (root-commit) 9ed0914] adding third.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 third.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git log
commit 9ed0914693842552bde9b5cd4870716508641517 (HEAD -> master)
Author: MedAliBouchnak <106705873+MedAliBouchnak@users.noreply.github.com>
Date:   Fri Sep 2 09:53:32 2022 +0100

    adding third.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ touch fourth.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git add .
```

10. Commit with the message "adding fourth.txt"
11. Remove the third.txt file.
12. Add this change to the staging area. (Using the command "git add . "
13. Commit with the message "removing third.txt".
14. Check out your commits using git log.

```
Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git commit -m 'adding fourth.txt'
[master 7b11dbb] adding fourth.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 fourth.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git rm third.txt
rm 'third.txt'

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git add .

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git commit -m 'removing third.txt'
[master c45dad4] removing third.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 third.txt

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git log
commit c45dad4150cd79ad05b8fed6fb897a38c64df859 (HEAD -> master)
Author: MedAliBouchnak <106705873+MedAliBouchnak@users.noreply.github.com>
Date:   Fri Sep 2 09:57:05 2022 +0100

    removing third.txt

commit 7b11dbb70dd118ad9e641171fa0957dec2db215c
Author: MedAliBouchnak <106705873+MedAliBouchnak@users.noreply.github.com>
Date:   Fri Sep 2 09:55:24 2022 +0100

    adding fourth.txt

commit 9ed0914693842552bde9b5cd4870716508641517
Author: MedAliBouchnak <106705873+MedAliBouchnak@users.noreply.github.com>
Date:   Fri Sep 2 09:53:32 2022 +0100

    adding third.txt
```

15. Change your global settings to core.pager=cat - you can read more about that <u>here</u>.

```
Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git config --global core.pager 'cat'

Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git config --list --show-origin
file:C:/Program Files/Git/etc/gitconfig diff.astextplain.textconv=astextplain
file:C:/Program Files/Git/etc/gitconfig filter.lfs.clean=git-lfs clean -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Program Files/Git/etc/gitconfig filter.lfs.process=git-lfs filter-proces
s
file:C:/Program Files/Git/etc/gitconfig filter.lfs.required=true
file:C:/Program Files/Git/etc/gitconfig http.sslbackend=openssl
file:C:/Program Files/Git/etc/gitconfig http.sslcainfo=C:/Program Files/Git/ming
w64/ssl/certs/ca-bundle.crt
file:C:/Program Files/Git/etc/gitconfig core.autocrlf=true
file:C:/Program Files/Git/etc/gitconfig core.fscache=true
file:C:/Program Files/Git/etc/gitconfig core.symlinks=false
file:C:/Program Files/Git/etc/gitconfig pull.rebase=false
file:C:/Program Files/Git/etc/gitconfig credential.helper=manager-core
file:C:/Program Files/Git/etc/gitconfig credential.https://dev.azure.com.usehttp
path=true
file:C:/Program Files/Git/etc/gitconfig init.defaultbranch=master
file:C:/Users/Med Ali Bouchnak/.gitconfig        user.name=MedAliBouchnak
file:C:/Users/Med Ali Bouchnak/.gitconfig        user.email=106705873+MedAliBouch
nak@users.noreply.github.com
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.clean=git-lfs clean -
- %f
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.smudge=git-lfs smudge
 -- %f
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.process=git-lfs filte
r-process
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.required=true
file:C:/Users/Med Ali Bouchnak/.gitconfig        core.pager=cat
file:.git/config        core.repositoryformatversion=0
file:.git/config        core.filemode=false
file:.git/config        core.bare=false
file:.git/config        core.logallrefupdates=true
file:.git/config        core.symlinks=false
file:.git/config        core.ignorecase=true
```

16. Write the appropriate command to list all the global configurations for git on your machine.

```
Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (mas
ter)
$ git config --global --list --show-origin
file:C:/Users/Med Ali Bouchnak/.gitconfig        user.name=MedAliBouchnak
file:C:/Users/Med Ali Bouchnak/.gitconfig        user.email=106705873+MedAliBouchnak@users.noreply.github.com
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.clean=git-lfs clean -- %f
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.smudge=git-lfs smudge -- %f
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.process=git-lfs filter-process
file:C:/Users/Med Ali Bouchnak/.gitconfig        filter.lfs.required=true
file:C:/Users/Med Ali Bouchnak/.gitconfig        core.pager=cat
```

17. You can type git config --global to find out how to do this.

```
Med Ali Bouchnak@DESKTOP-L1Q6V2N MINGW64 ~/Desktop/Git Checkpoint/learn_git (master)
$ git config --global
usage: git config [<options>]

Config file location
    --global              use global config file
    --system              use system config file
    --local               use repository config file
    --worktree            use per-worktree config file
    -f, --file <file>     use given config file
    --blob <blob-id>      read config from given blob object

Action
    --get                 get value: name [value-pattern]
    --get-all             get all values: key [value-pattern]
    --get-regexp          get values for regexp: name-regex [value-pattern]
    --get-urlmatch        get value specific for the URL: section[.var] URL
    --replace-all         replace all matching variables: name value [value-pattern]
    --add                 add a new variable: name value
    --unset               remove a variable: name [value-pattern]
    --unset-all           remove all matches: name [value-pattern]
    --rename-section      rename section: old-name new-name
    --remove-section      remove a section: name
    -l, --list            list all
    --fixed-value         use string equality when comparing values to 'value-pattern'
    -e, --edit            open an editor
    --get-color           find the color configured: slot [default]
    --get-colorbool       find the color setting: slot [stdout-is-tty]

Type
    -t, --type <type>     value is given this type
    --bool                value is "true" or "false"
    --int                 value is decimal number
    --bool-or-int         value is --bool or --int
    --bool-or-str         value is --bool or string
    --path                value is a path (file or directory name)
    --expiry-date         value is an expiry date

Other
    -z, --null            terminate values with NUL byte
    --name-only           show variable names only
    --includes            respect include directives on lookup
    --show-origin         show origin of config (file, standard input, blob, command line)
    --show-scope          show scope of config (worktree, local, global, system, command)
    --default <value>     with --get, use default value when missing entry
```