Git Lab Assignment 1

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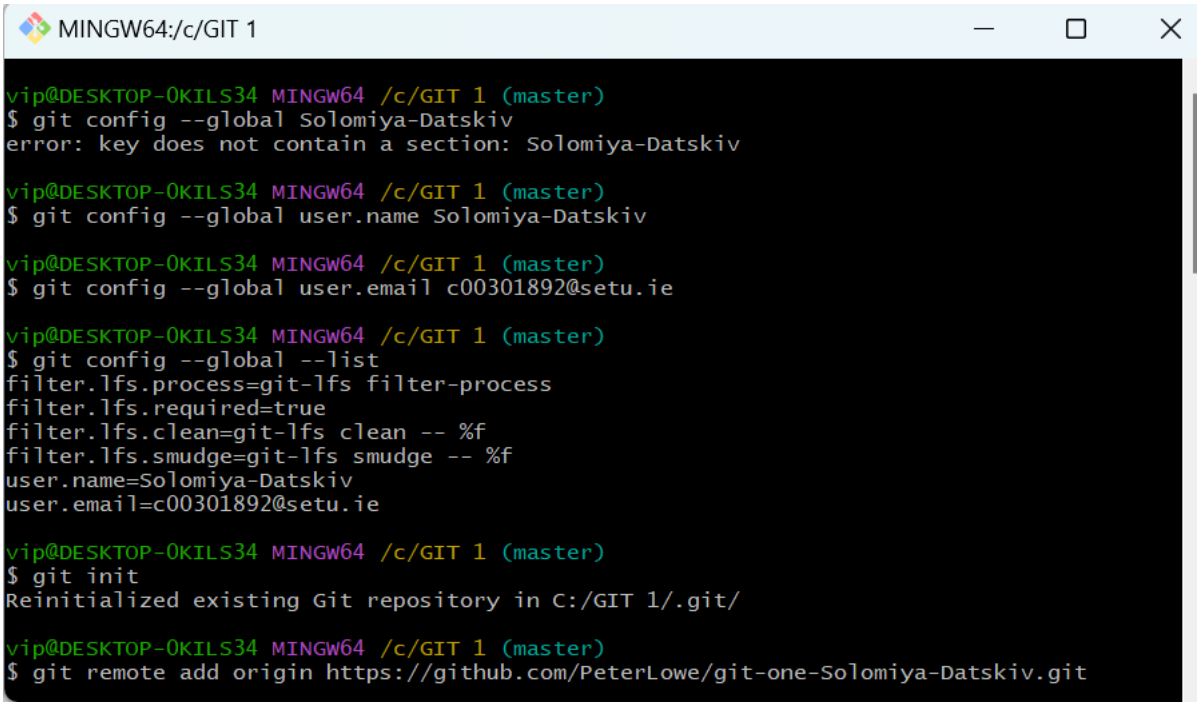
1.Init

Command that allows user to create a new git repository.

```
vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (master)
$ git init
Reinitialized existing Git repository in C:/GIT 1/.git/
```



2. Add

Command allows to add new files to directory.

git add .

Adds files to next commit only.

```
vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (master)
$ git remote add origin https://github.com/PeterLowe/git-one-Solomiya-Datskiv.git

vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (master)
$ git add .
```

3. Status

git status

A command which lists files: modified file in working area, added files in staging area, current branch.

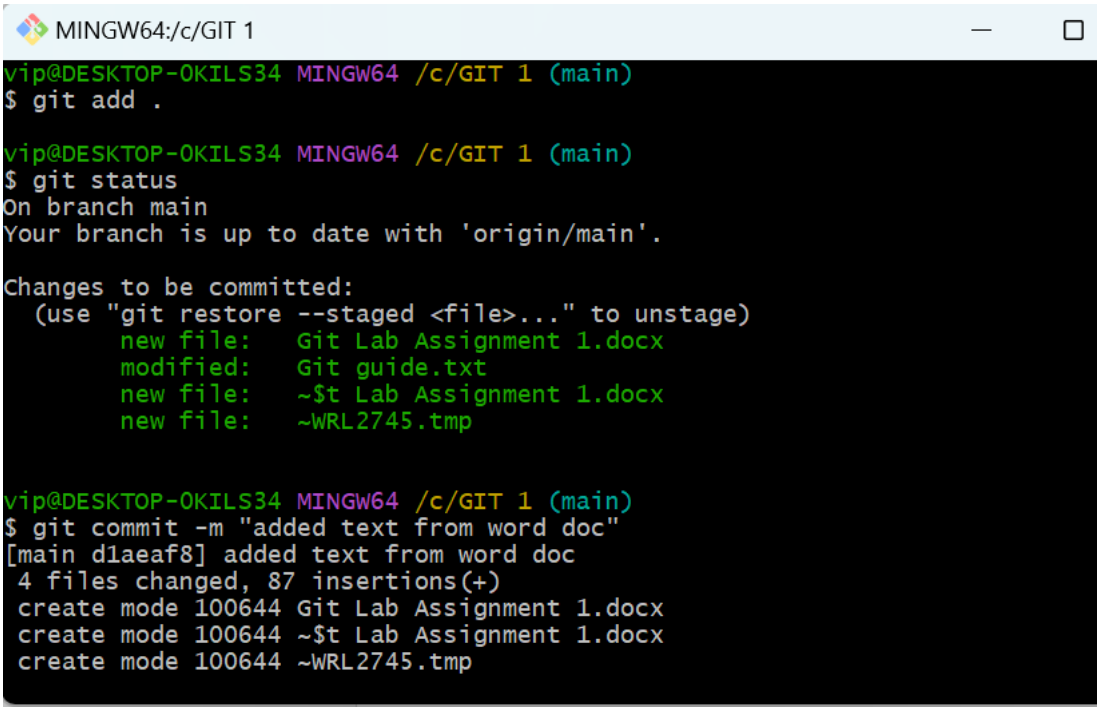
```
vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (main)
$ git add .

vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   Git Lab Assignment 1.docx
        new file:   ~$t Lab Assignment 1.docx


vip@DESKTOP-0KILS34 MINGW64 /c/GIT 1 (main)
$
```

4. Commit

Git commit –m “comment”

Git commit

This command allows user to enter editor mode to enter multiline comment.



5. Remote

Git remote –v

This command lists repositories on remote server.

Git remote add <name> <url>

Command creates a new remote repository.

Git remote rm <name>

Command deletes a remote repository.

```
vip@DESKTOP-OKILS34 MINGW64 /c/GIT 1 (main|MERGING)
$ git remote -v
origin  https://github.com/PeterLowe/git-one-Solomiya-Datskiv.git (fetch)
origin  https://github.com/PeterLowe/git-one-Solomiya-Datskiv.git (push)

vip@DESKTOP-OKILS34 MINGW64 /c/GIT 1 (main|MERGING)
$
```

6. Push

Git push

The command allows user to update remote node with current node.

Needs to associate remote node.

git push –u origin master

The command allows to push local master to origin on server.

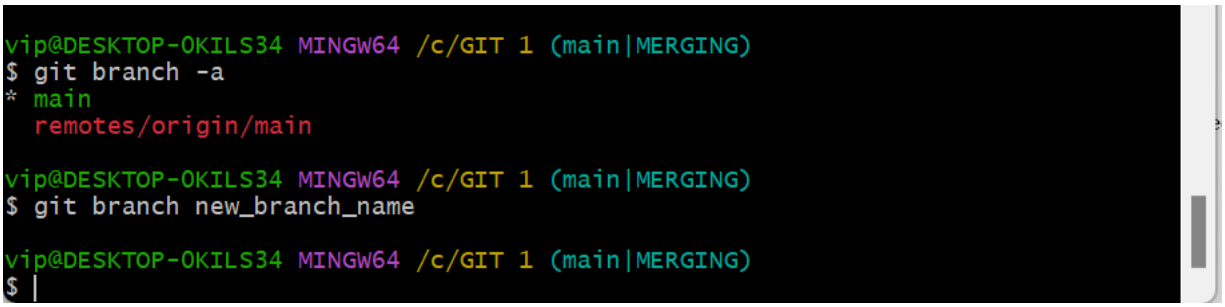
7. Branch

To create a new branch in the local repository, you have to use

Git branch new_branch_name

To list all branches in repository:

Git branch –a/-l/-r

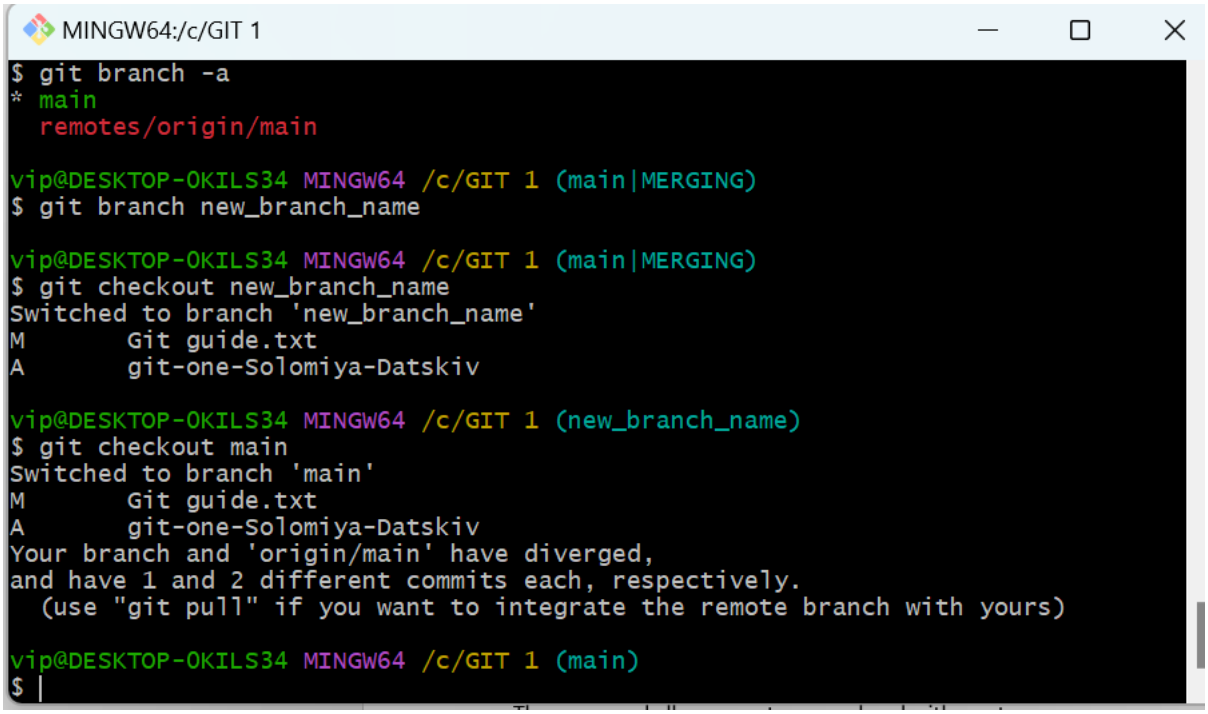


8. Checkout

Git checkout branch_name

The command makes this node the current HEAD and ensures working directory matches that node / commit.

It won’t work if there are modified files.



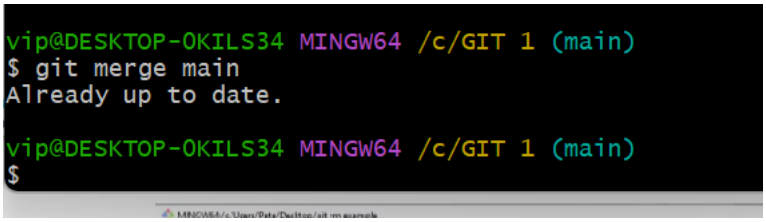
9. Merge

git merge master

The command allows user to merge head with master.

! - Git will automatically apply changes if separate.

You should edit file/s and add first, and then commit.



10. Log

The command displays entire commit history:

Git log

To alter files and change line:

Git log --stat

Branch paths drawn:

Git log --graph

To draw paths condensed output:

Git log --graph --oneline

Only last n commits:

Git log -n

```
vip@DESKTOP-OKILS34 MINGW64 /c/GIT 1 (main)
$ Git log
commit d1aeaf834b578fe01bd6e5436eff0379f018baa5 (HEAD -> main, new_branch_name)
Author: Solomiya-Datskiv <c00301892@setu.ie>
Date:   Mon Oct 23 01:56:27 2023 +0300

    added text from word doc

commit aa085d5af16a4bd3abeac048e7a7da5d76101476
Author: Solomiya-Datskiv <c00301892@setu.ie>
Date:   Sun Oct 22 22:43:21 2023 +0300

    starting report

vip@DESKTOP-OKILS34 MINGW64 /c/GIT 1 (main)
$
```

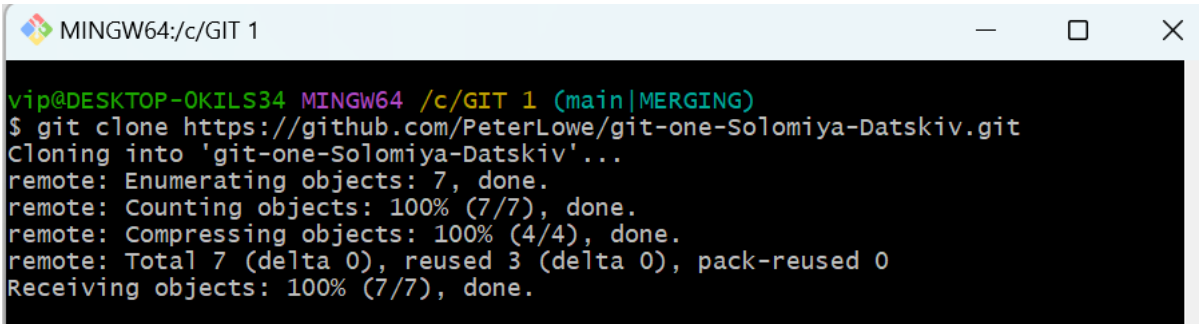
11. Clone

Git clone URL

This command allows to make a copy of a repository that currently exists on GitHub (or other) and save it on PC. After executing clone the repo will be in a sub folder of where user ran the git clone command.

To access the repo:

Cd DirectoryName



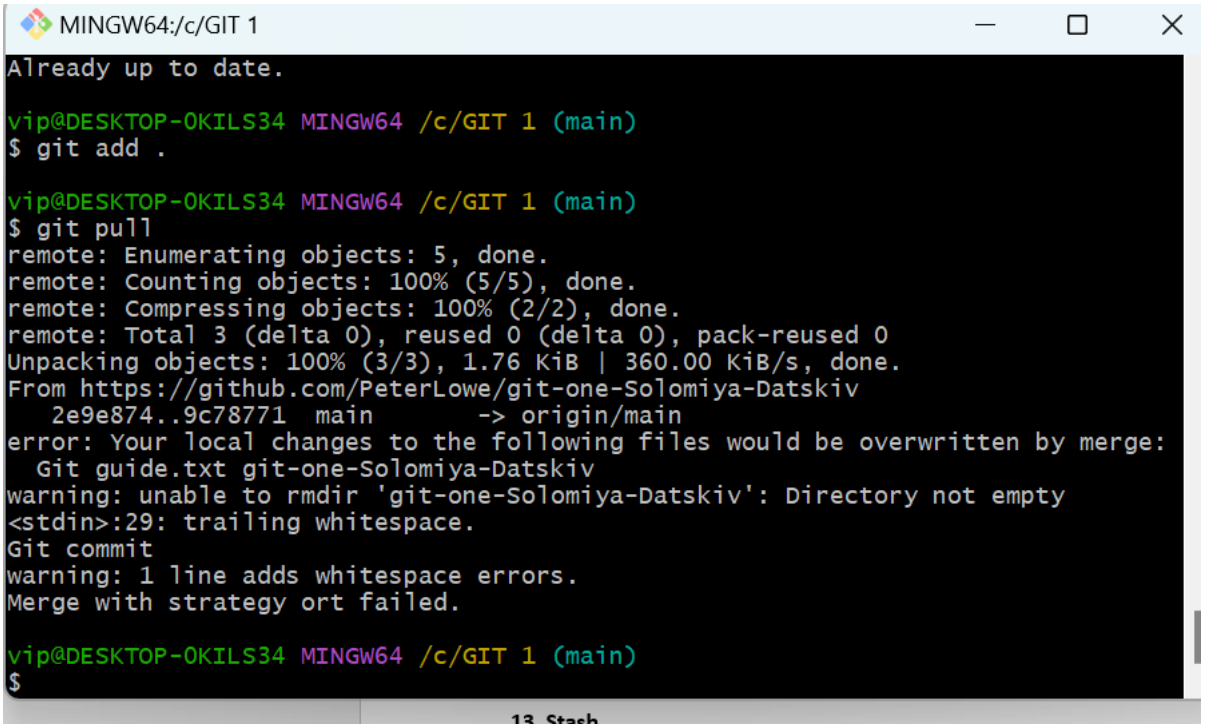
12. Pull

Git pull <remote>

The command performs a fetch and merge.

Git pull –rebase

Performs a fetch and merges the remote origin into local master.



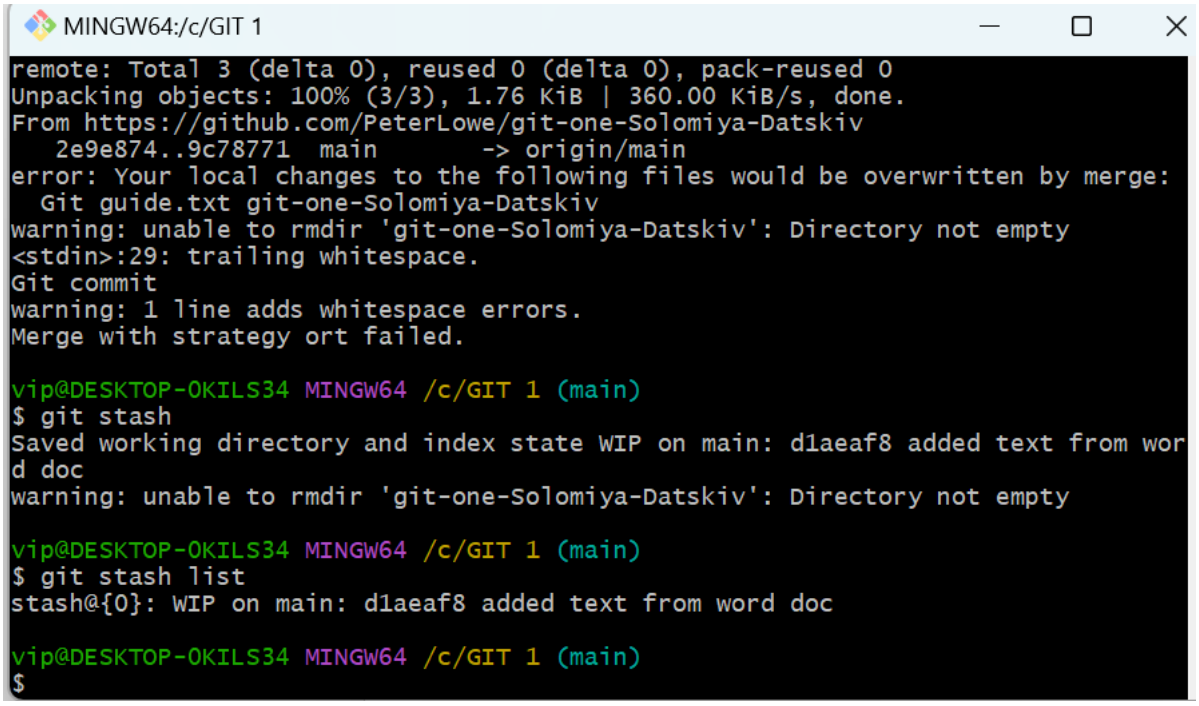
13. Stash

Git stash

The command allows user to create a local only copy of the current working directory.

Git stash list

Allows user to list previously pushed stash(es).



14. Rm

Command which allows user to remove file from tracking:

Git rm <filename>

Also:

-- cached (staging area only)

-r (recursive)

-n (dry run list files only)