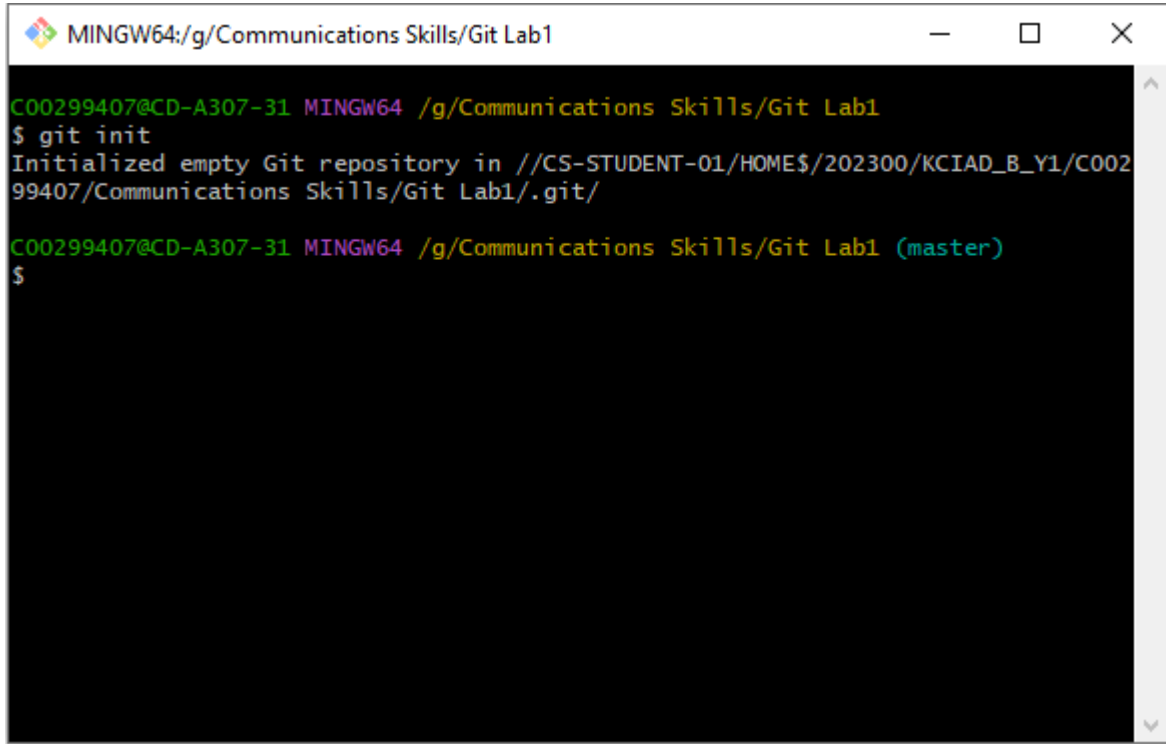


## Init

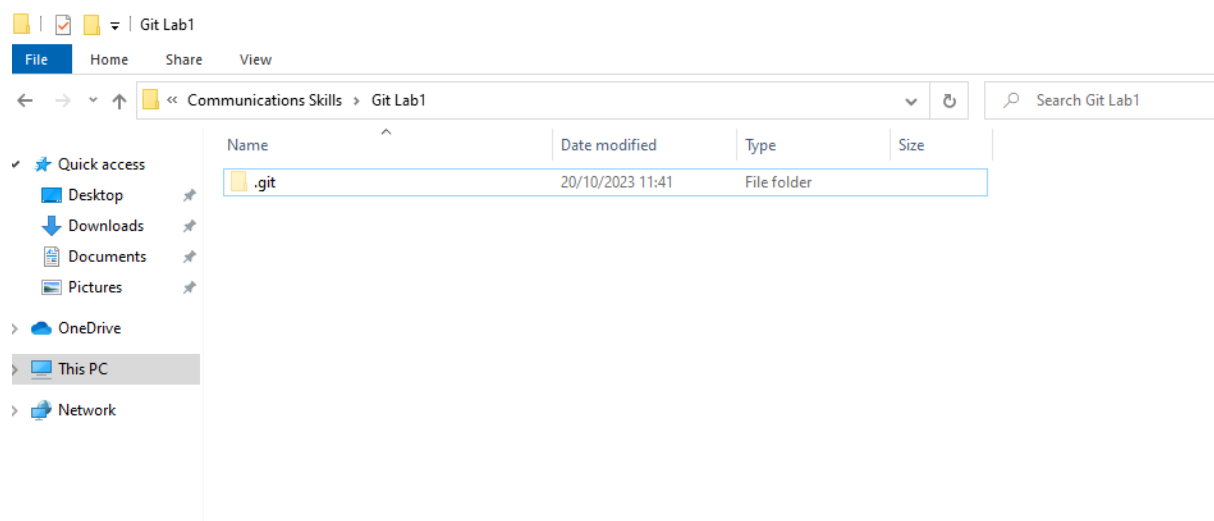
- Creates a new local repository in a chosen folder.
- Git Bash adds a .git folder to the chosen folder.
- This git bash folder is hidden but can be made visible through clicking “view” and selecting “hidden items”.



```
MINGW64:/g/Communications Skills/Git Lab1

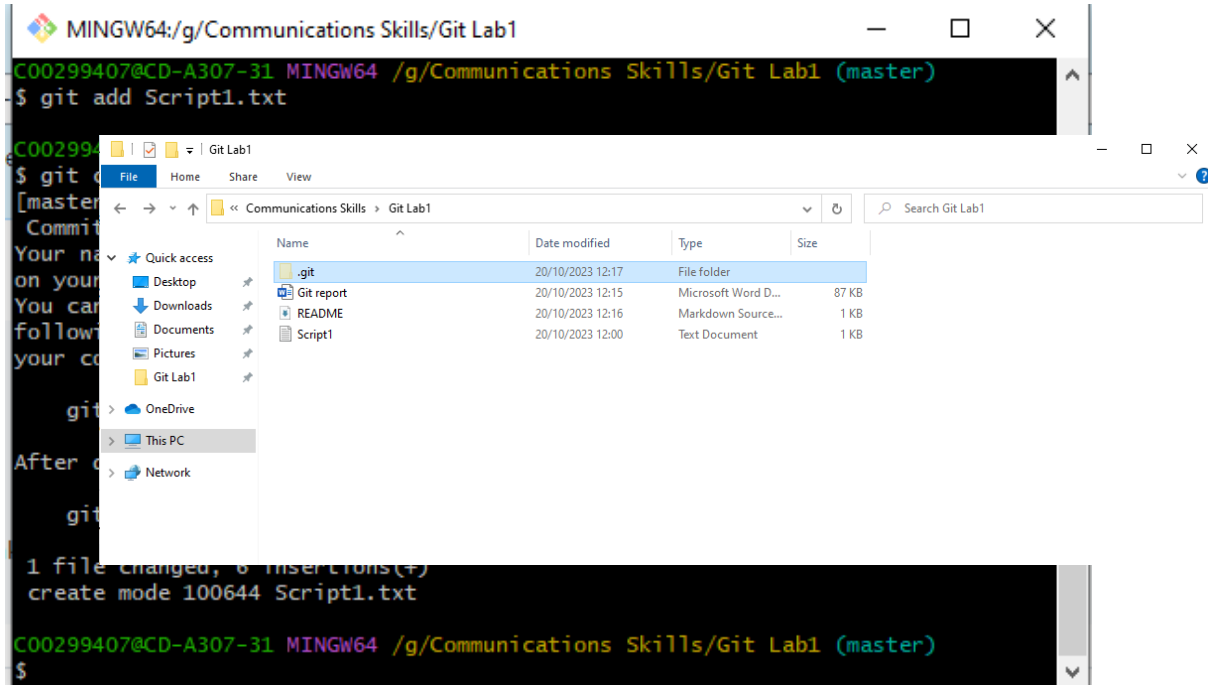
C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1
$ git init
Initialized empty Git repository in //CS-STUDENT-01/HOME$/202300/KCIAD_B_Y1/C00299407/Communications Skills/Git Lab1/.git/

C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (master)
$
```



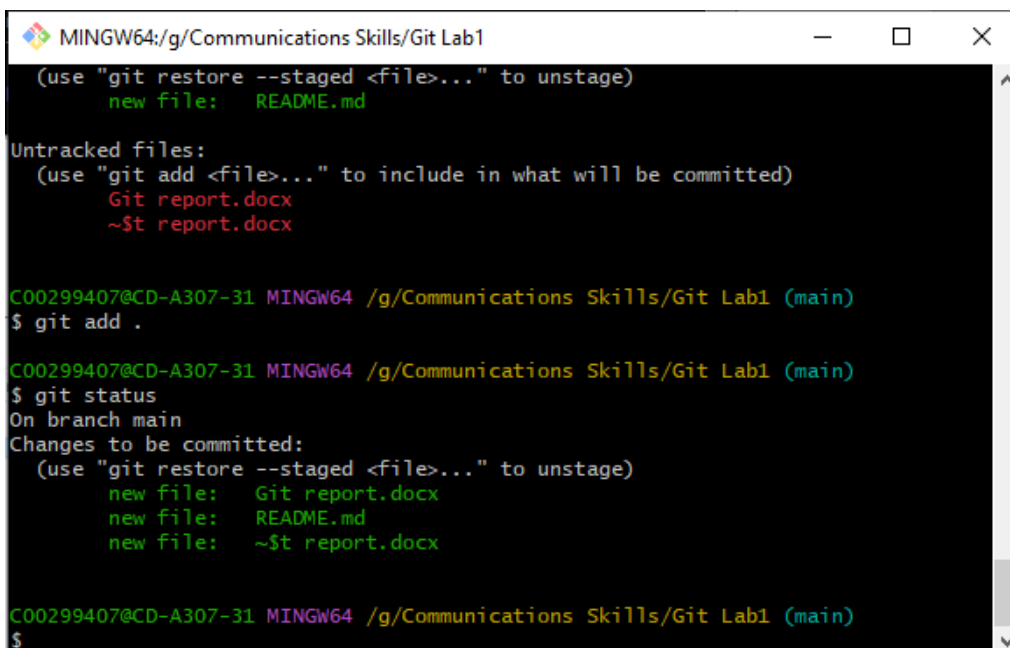
## Add

- Adds new files to the directory.
- Doesn't include files ending with ".gitignore".
- Adds files to the next commit only.
- If a file is changed before committing, it needs to be added again.



## Status

- Gives a list of files that are modified in the working area.
- Gives a list of files that are added to the staged area.
- Gives a list of files that are in the current branch.



## Commit

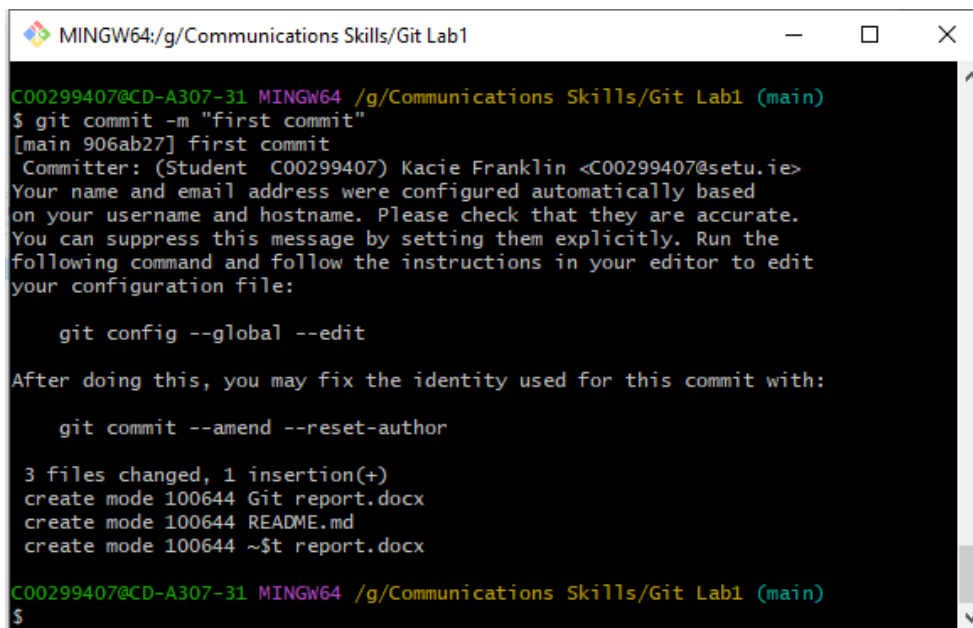
- Creates a snapshot of the current repository.

### `git commit -m "comment"`

- Whenever a file is modified; a commit command needs to be done to have the latest version of the file saved to the repository.

### `git commit --amend`

- This allows for this commit to be joined to previous commits instead of it being a separate one.

A screenshot of a terminal window titled "MINGW64:/g/Communications Skills/Git Lab1". The terminal shows the execution of the command `git commit -m "first commit"`. The output indicates a successful commit on the 'main' branch with hash 906ab27. It lists the files changed: 'Git report.docx', 'README.md', and '~\$t report.docx'. The terminal also displays instructions for configuring git globally and how to amend a commit.

```
C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git commit -m "first commit"
[main 906ab27] first commit
Committer: (Student C00299407) Kacie Franklin <C00299407@setu.ie>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

3 files changed, 1 insertion(+)
create mode 100644 Git report.docx
create mode 100644 README.md
create mode 100644 ~$t report.docx
C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (main)
$
```

### `Push`

- Updates the remote node with current node.

### `git push -u origin master`

- The local master is connected with the remote master.
- This command is only needed once.

```

MINGW64:/g/Communications Skills/Git Lab1
create mode 100644 Git report.docx
create mode 100644 README.md
create mode 100644 ~$t report.docx

C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git remote add origin https://github.com/PeterLowe/git-one-KacieFranklin.git
error: remote origin already exists.

C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 16 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (8/8), 78.44 KiB | 9.80 MiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/PeterLowe/git-one-KacieFranklin.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.

C00299407@CD-A307-31 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ |

```

## Branch

### git branch new branch name

- Makes a new branch in the chosen local repository.

### git branch -a/-l/-r

- Lists all branches in local repository

```

MINGW64:/g/Communications Skills/Git Lab1
$ git add .

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (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:   git2.txt

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git merge master
merge: master - not something we can merge

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git branch -a
* main
  new_branch_name
remotes/origin/main

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ |

```

## Clone

- Creates a copy of the code from the repository which can then be worked on locally. Updates to the file can be sent to the repository when completed or at least updated often. Updates can also be received from others via the server. (GitHub)

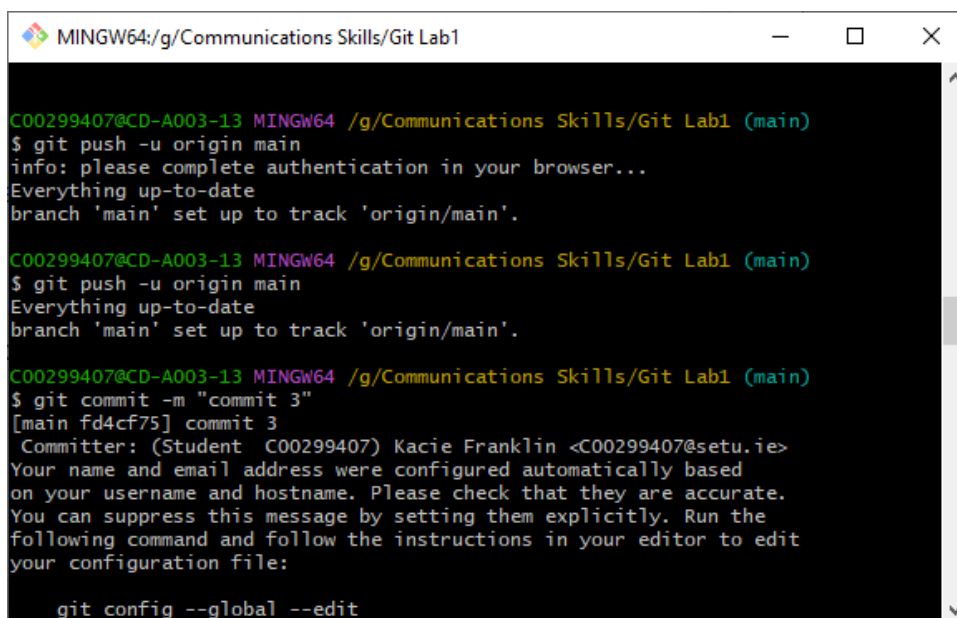
## Pull

### git pull <remote>

- Does a fetch command and a merge command all in one.

### git pull -rebase

- Does a fetch and merge command while pulling from a remote origin and placing the files into the local master.
- (I attempted to send files to my own repository, but it saved them to the remote one instead of my own repository I had made and I don't know how to fix it)



```
MINGW64:/g/Communications Skills/Git Lab1
C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git push -u origin main
info: please complete authentication in your browser...
Everything up-to-date
branch 'main' set up to track 'origin/main'.

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git push -u origin main
Everything up-to-date
branch 'main' set up to track 'origin/main'.

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git commit -m "commit 3"
[main fd4cf75] commit 3
Committer: (Student C00299407) Kacie Franklin <C00299407@setu.ie>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

git config --global --edit
```

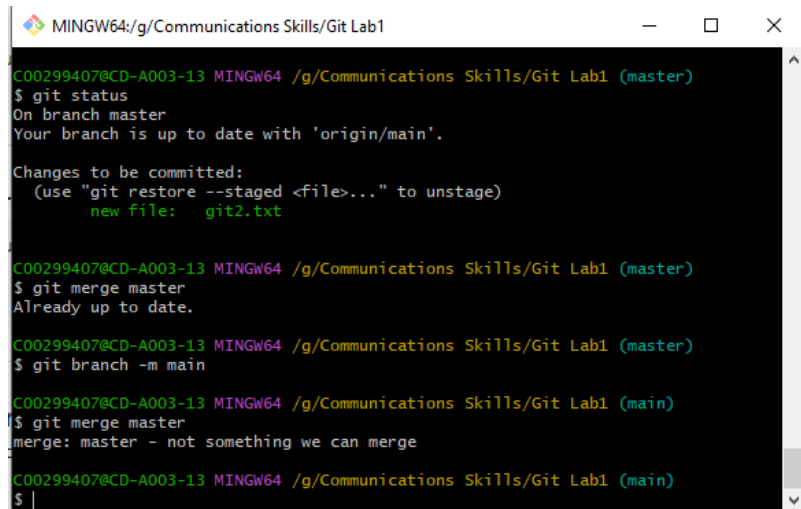
## Merge

### git merge master

- Merges the head with the master branch.
- Will automatically update if they are separate.
- Will warn if there's any issues with the merge and cancel the merge.
- Edit files, add and then commit.

## Rm

- Does the opposite of the add command.
- Removes files from the directory.
- -- cached, removes files from the staging area only.
- -r, removes everything from the directory.
- -n, removes dry run list files only.



```
MINGW64:/g/Communications Skills/Git Lab1
C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (master)
$ git status
On branch master
Your branch is up to date with 'origin/main'.

Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        new file:   git2.txt

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (master)
$ git merge master
Already up to date.

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (master)
$ git branch -m main

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ git merge master
merge: master - not something we can merge

C00299407@CD-A003-13 MINGW64 /g/Communications Skills/Git Lab1 (main)
$ |
```