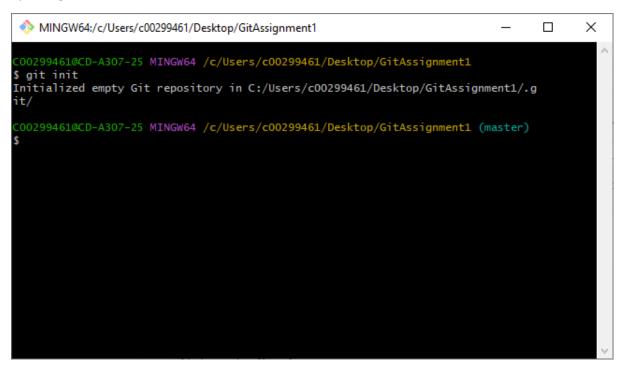
Init

git init is used to create a new repository in the place where you started your Git Bash from. It creates a hidden .git folder which is the directory for this project. It will also create an empty branch for you to work in. It will mainly be used at the beginning of a project, but you can use it in an existing repository without issue.

Syntax: git init



Add

git add is used to bring a file found in your bash folder to the 'stage,' making it ready for the next commit. This acts as a 'screenshot' of the file, so if you update it before committing you will need to use this command to stage it again. You can check if it worked with the git status command, after which the file will be highlighted in green if it's staged.

Syntax: git add

```
MINGW64:/c/Users/super/OneDrive/Desktop/GitAssignment1 — X

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ git add Git1.txt

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ git status

On branch master

Your branch is up to date with 'origin/master'.

Changes to be committed:
    (use "git restore --staged <file>..." to unstage)
    modified: Git1.txt

Changes not staged for commit:
    (use "git add <file>..." to update what will be committed)
    (use "git restore <file>..." to discard changes in working directory)
    modified: Git1.docx

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ |
```

```
MINGW64:/c/Users/c00299461/Desktop/GitAssignment1
                                                                                  Х
nint: "git config advice.addEmptyPathspec false'
C00299461@CD-A307-25 MINGW64 /c/Users/c00299461/Desktop/GitAssignment1 (master)
$ git add Git1.txt
C00299461@CD-A307-25 MINGW64 /c/Users/c00299461/Desktop/GitAssignment1 (master)
$ git add Git1.txt
C00299461@CD-A307-25 MINGW64 /c/Users/c00299461/Desktop/GitAssignment1 (master)
$ git remote add origin https://github.com/PeterLowe/git-one-SophiaStanley.git
C00299461@CD-A307-25 MINGW64 /c/Users/c00299461/Desktop/GitAssignment1 (master)
$ git status
On branch master
No commits yet
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
```

Status

git status is used to show the details of your repository. This includes what branch you're currently on and details on your files, for example if they've been modified but not staged. If you have a remote repository, it will also tell you how much this version of the repository differs between the remote one.

Syntax: git status

```
MINGW64:/c/Users/super/OneDrive/Desktop/GitAssignment1 — X

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
   (use "git add <file>..." to update what will be committed)
   (use "git restore <file>..." to discard changes in working directory)
   modified: Git1.docx

no changes added to commit (use "git add" and/or "git commit -a")

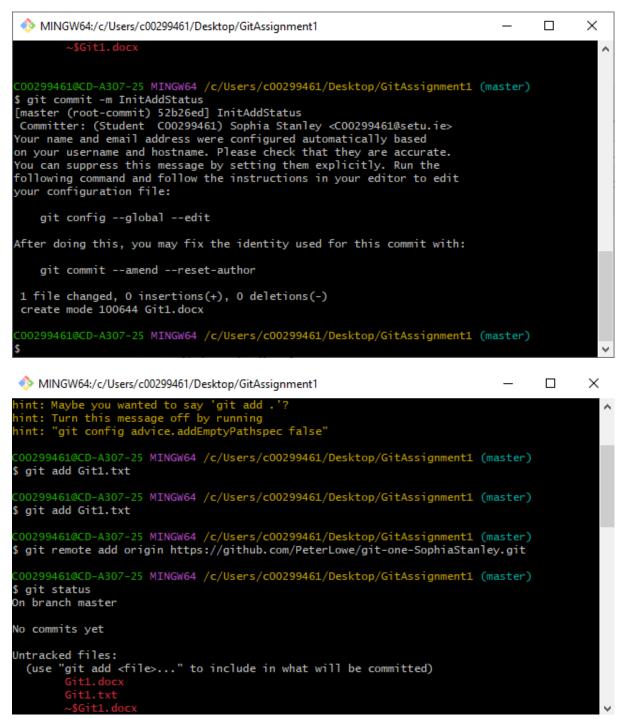
super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$
```

Commit

git commit is used to create a save point for your repository. If adding is a screenshot of your files, then committing could be seen as a screenshot of your whole repository. You cannot commit until you've made some changes since the previous time, such as by staging another file.

Syntax: git commit



Push

The git push command updates any remote repositories with the most recent commit to ensure that they're both up to date, by sending all of the new content within the local copy to the remote one.

You should specify which repository you want to update, as if you have more than one remote it will either be sent to the one configured as the 'default' or the one named origin.

Syntax: git push [repository]

Remote

You can use git remote to create additional versions of your repository that exist outside of your local drive. For creating a new one, you will need to include a name and the URL of where the new copy will be stored. Simply typing 'git remote' brings up a list of your remote copies, and adding -v gives a more detailed list.

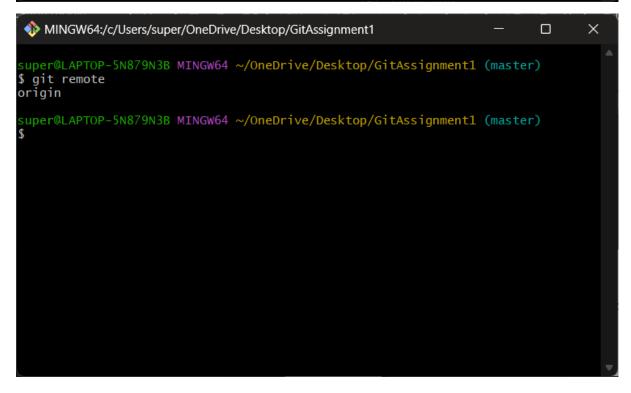
Syntax: git remote add [name] [URL]

```
MINGW64:/c/Users/super/OneDrive/Desktop/GitAssignment1 — X

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)
$ git remote add origin https://github.com/PeterLowe/git-one-SophiaStanley

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)
$ git remote -v
origin https://github.com/PeterLowe/git-one-SophiaStanley (fetch)
origin https://github.com/PeterLowe/git-one-SophiaStanley (push)

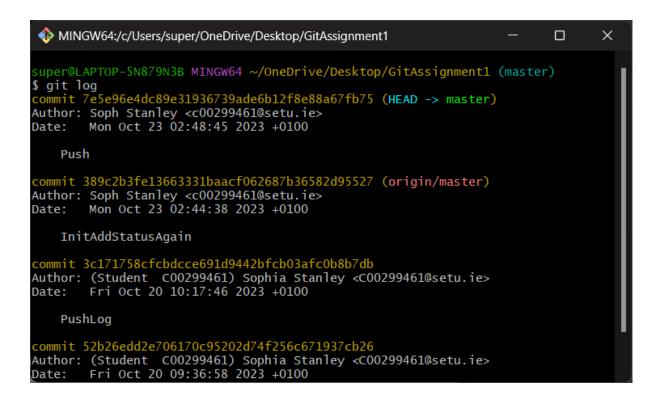
super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)
$ |
```



Log

git log displays a list of every commit you have made in this repository, starting from the earliest. Depending on your screen size, this can fill up the whole screen after about 5 commits, after which you can press the space bar to scroll down to the end, and q to quit out of the list.

Syntax: git log



Stash

git stash is used for when you want to create a record of your current directory, without needing to commit. You can use git stash pop to retrieve the contents from a stash to put in the repository.

Syntax: git stash

```
MINGW64:/c/Users/super/OneDrive/Desktop/GitAssignment1 — X

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

§ git stash
Saved working directory and index state WIP on master: 23214c6 Log

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

§ git stash list

stash@{0}: WIP on master: 23214c6 Log

stash@{1}: WIP on master: 23214c6 Log

stash@{1}: WIP on master: 23214c6 Log

stash@{3}: WIP on master: 3c17175 PushLog

stash@{4}: WIP on master: 3c17175 PushLog

stash@{5}: WIP on master: 52b26ed InitAddStatus

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$
```

Branch

git branch can be used to create another branch in a repository. This is a great way of sectioning off certain parts to do different things rather than having everything combined into one branch.

Syntax: git branch [name]

```
MINGW64:/c/Users/super/OneDrive/Desktop/GitAssignment1 — X

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ git branch main

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$ git branch
main

* master

super@LAPTOP-5N879N3B MINGW64 ~/OneDrive/Desktop/GitAssignment1 (master)

$
```

Checkout

If you're working with multiple branches, you can use the git checkout command to specify which one you want to be on currently. Make sure your current branch has been fully committed or stashed, otherwise it will not allow you to run the command.

Syntax: git checkout [branch]

