Name: Bright Kofi Ladzro

Course Title: DATA-413-001/006.2025S, DATA-613-001/006.

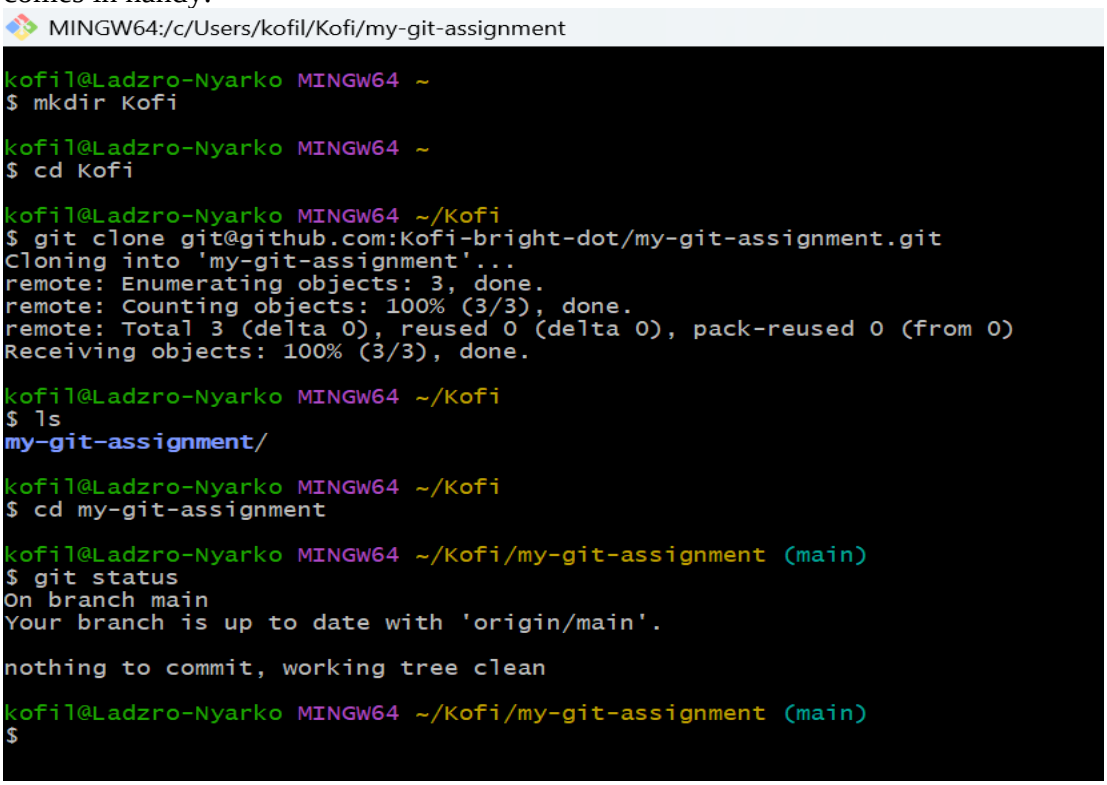
Title: Git and GitHub Assignment

1. Create a PDF Document with the following content:

- Title: "Git and GitHub Assignment"
- Your GitHub Repository URL:
  Include the URL of your GitHub repository at the top of the PDF
  (e.g., https://github.com/your-username/git-clone-push-assignment).
- Screenshots and Git Commands:
  - For each of the steps (cloning, adding a file, staging, committing, pushing), include a screenshot of the terminal and the corresponding Git commands and their outputs.
  - Make sure each screenshot is clearly labeled and explained.
- Make sure the PDF is properly formatted and easy to follow.

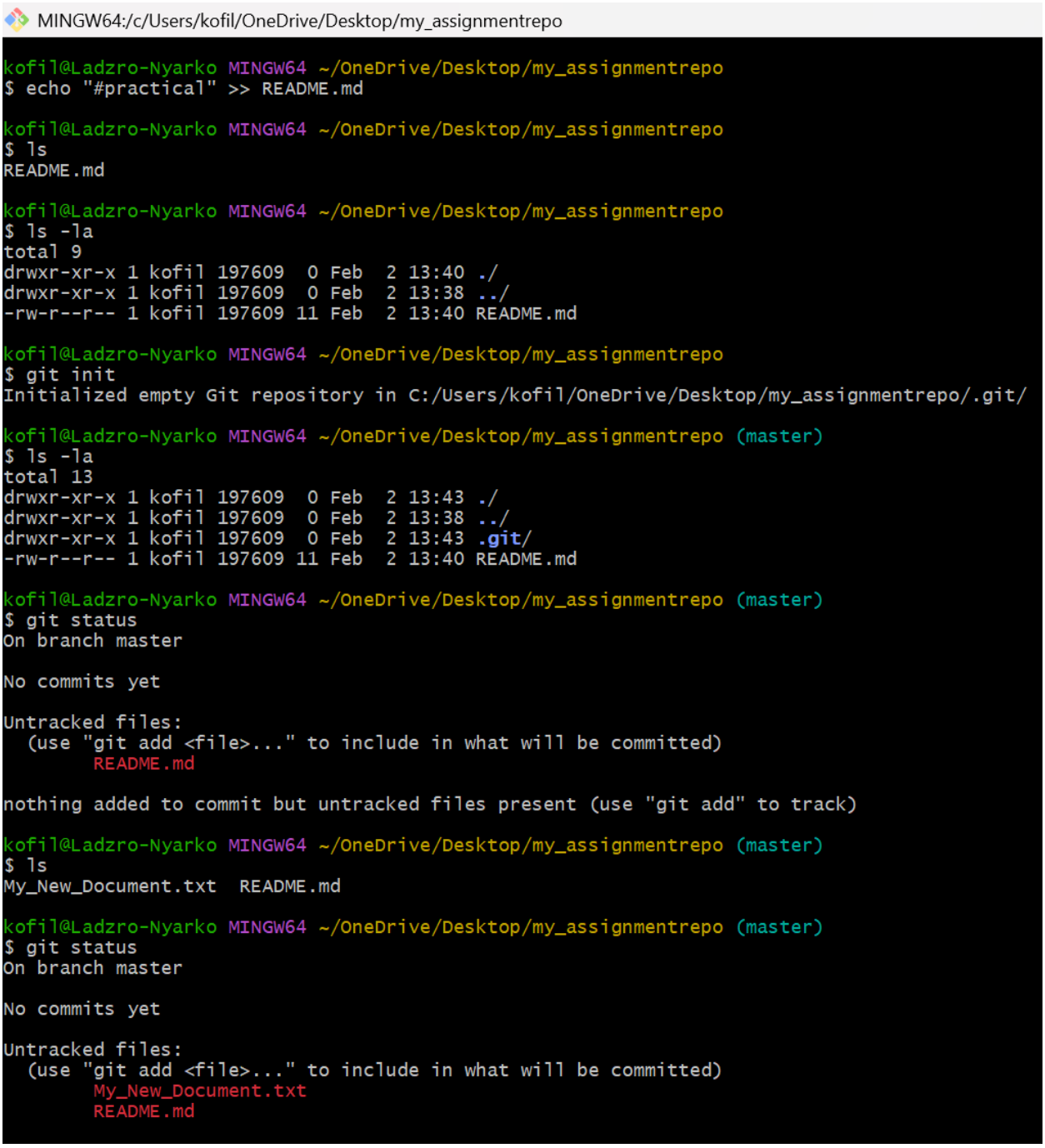
Git Bash Cloning of a Repository

In Git, cloning is making a local copy of a remote repository available for your working on. When you wish to work on a project or obtain the most recent codes from a repository, this comes in handy.



Adding a File to Git

In Git, the act of adding a file involves the transfer of a new or modified file from the working directory (your local modifications) to the staging area. This prepares the file for inclusion in the subsequent commit.



Staging in Git Bash

Staging is adding modifications to the staging area before committing them. The staging area is where you prepare modifications before committing them.

```
ofil@Ladzro-Nyarko MINGW64 ~/OneDrive/Desktop/my_assignmentrepo (master)
 git status
n branch master
our branch is up to date with 'origin/master'.

ntracked files:
 (use "git add <file>..." to include in what will be committed)
       my_second_doc.txt

othing added to commit but untracked files present (use "git add" to track)

ofil@Ladzro-Nyarko MINGW64 ~/OneDrive/Desktop/my_assignmentrepo (master)
 git add  my_second_doc.txt

ofil@Ladzro-Nyarko MINGW64 ~/OneDrive/Desktop/my_assignmentrepo (master)
 git commit -m 'Adding my_second_doc.txt to my repo'
master 8a75fed] Adding my_second_doc.txt to my repo
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 my_second_doc.txt
```

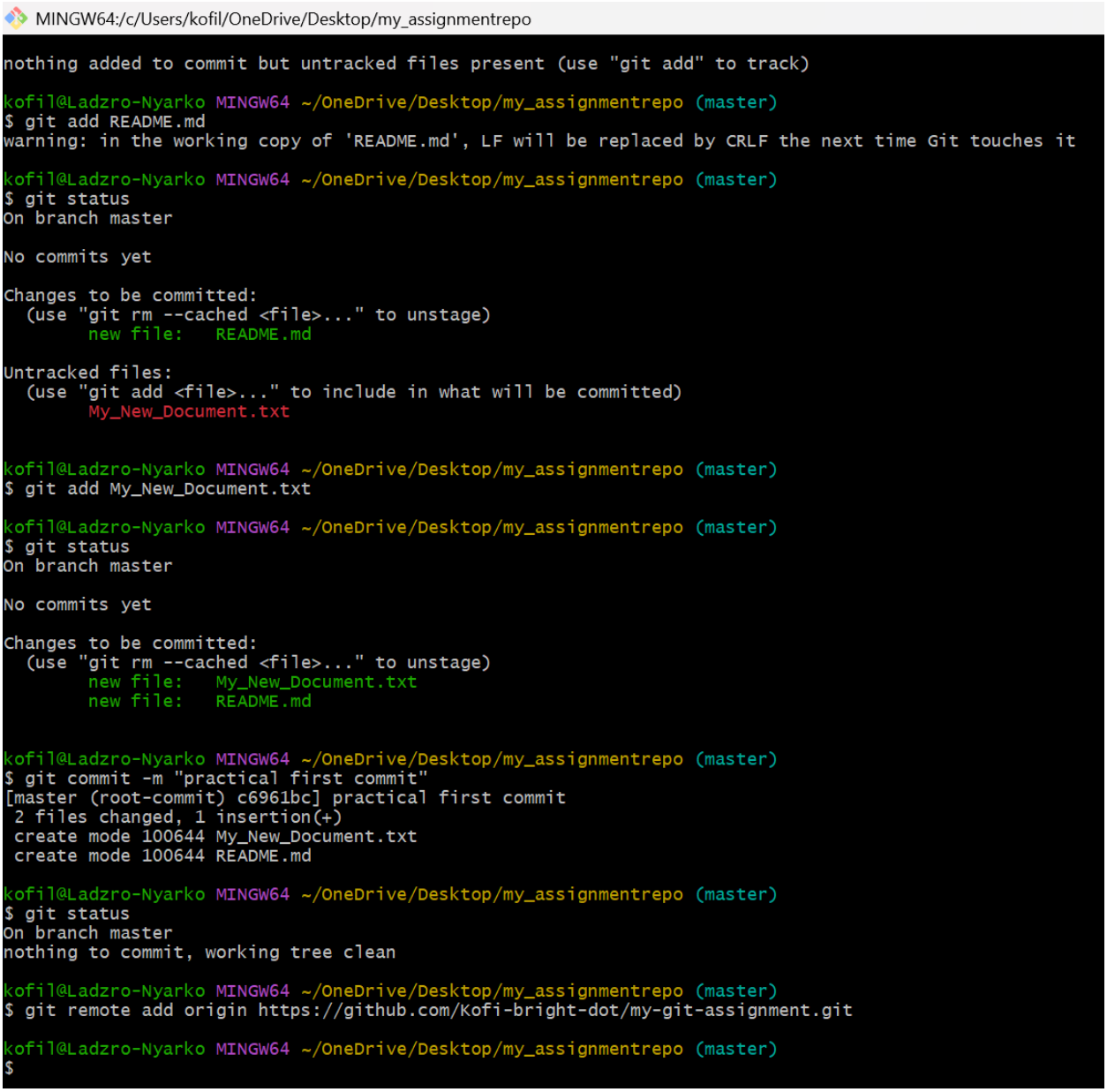
Committing a file in Git

When you commit a file in Git, the changes that have been made so far are saved forever in the local repository. A commit is like a picture of your project at a certain point in time.That each commit has:

It's a unique ID.

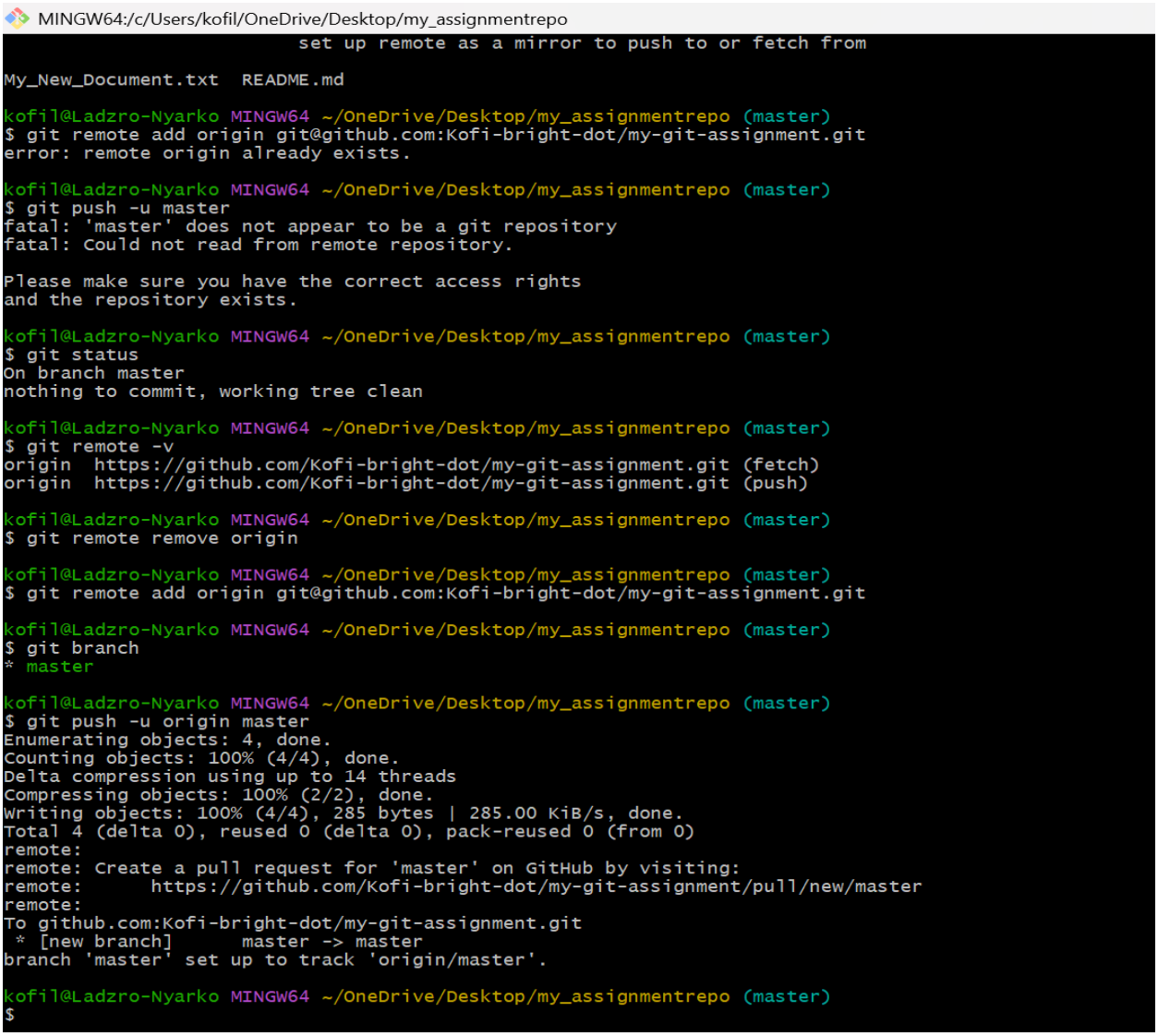
A commit message that lists the changes.

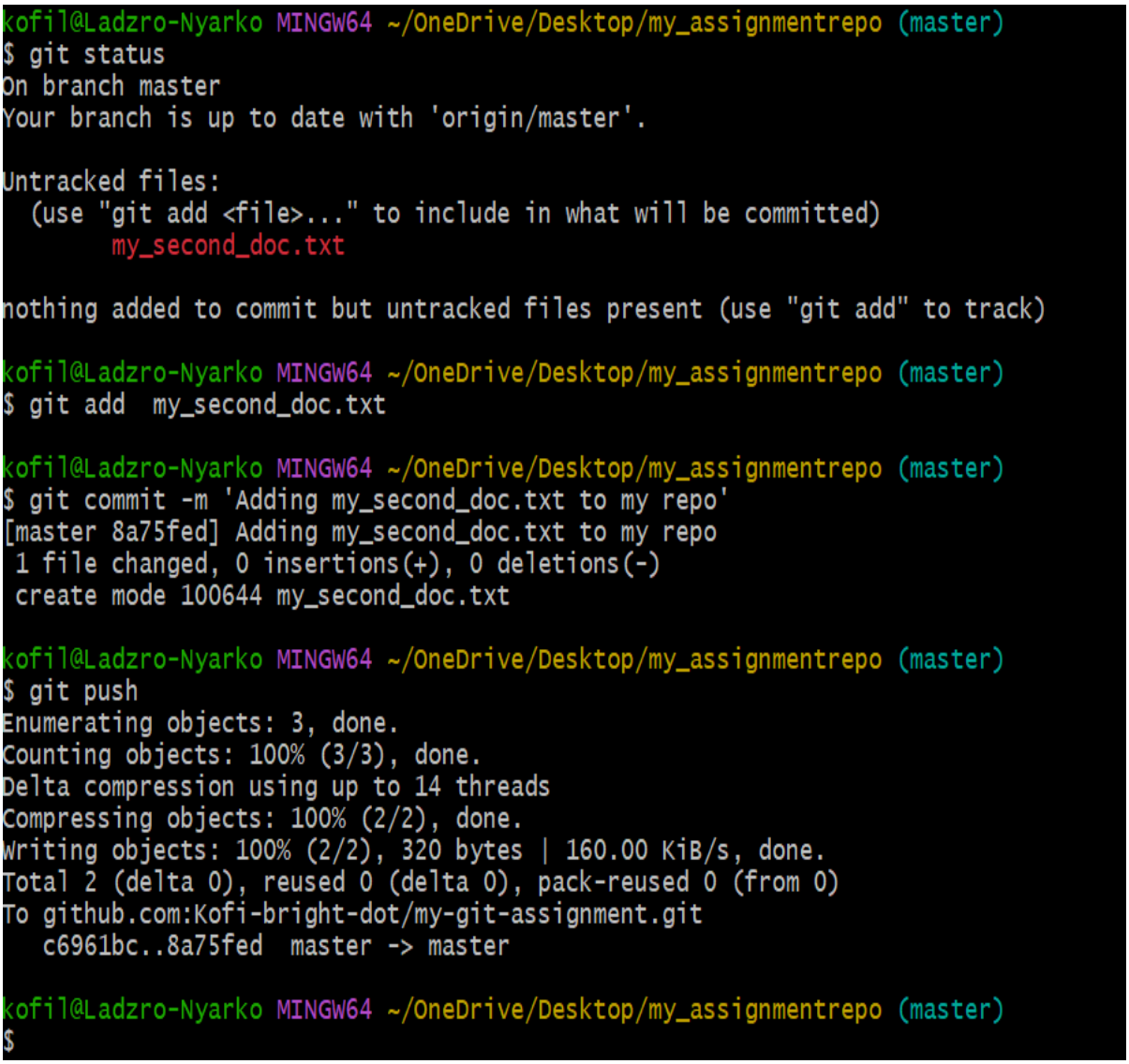
A link to the last commit (other than the first one).



Executing a push in Git

In Git, pushing refers to the act of transmitting your local commits to a remote repository (e.g., GitHub, GitLab, or Bitbucket). This enables other team members to view and collaborate on your modifications.





My Repository link

https://github.com/Kofi-bright-dot/my-git-assignment