**Experiment -5**

**To Merge Pull Request and Update local repository on GitHub.**

**Student Name: Sandhya UID:22bdo10074**

**Branch: CSE Devops Section/Group:22bcd-1 ‘b’**

**Semester: 4 Date :23/2/24**

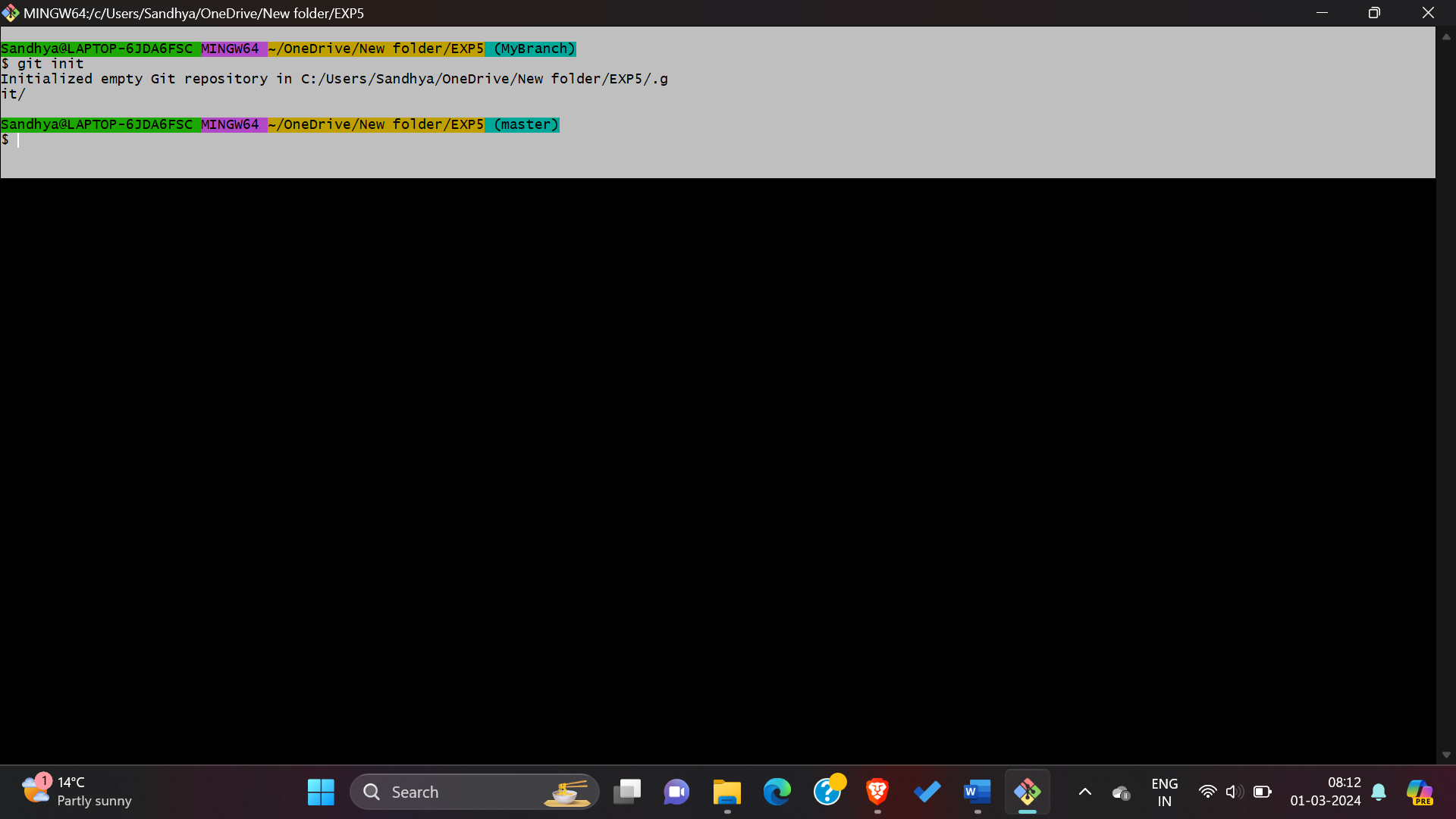
**Subject Name: git and git- hub Subject Code:22CSH-293**

**1. Aim/Overview of the practical: To Merge Pull Request and Update local repository on GitHub.**

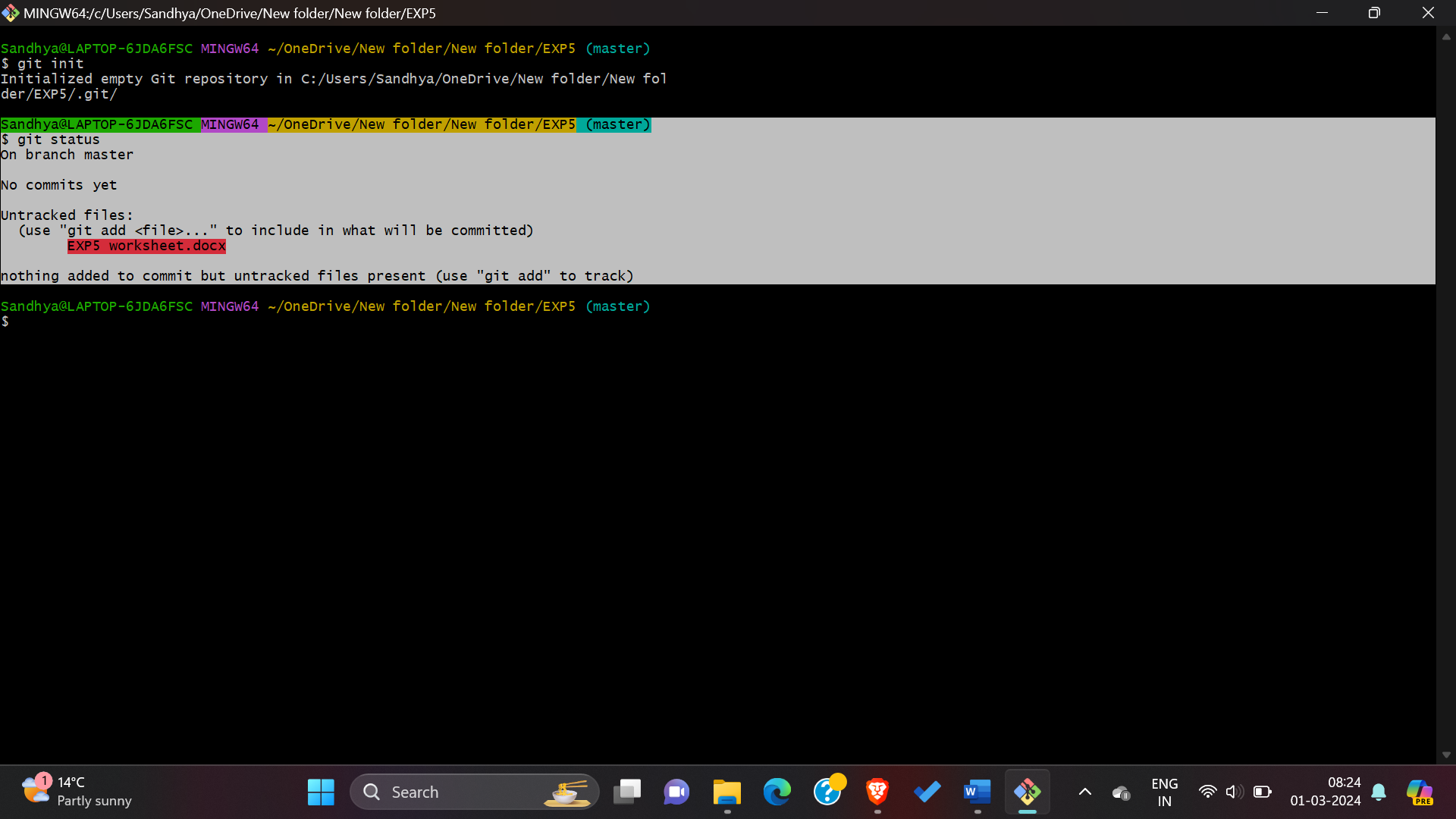
**2. Task to be done:** In this experiment we will merge the pull request and update local repository on git- hub**.**

**3. Steps for experiment/practical:**

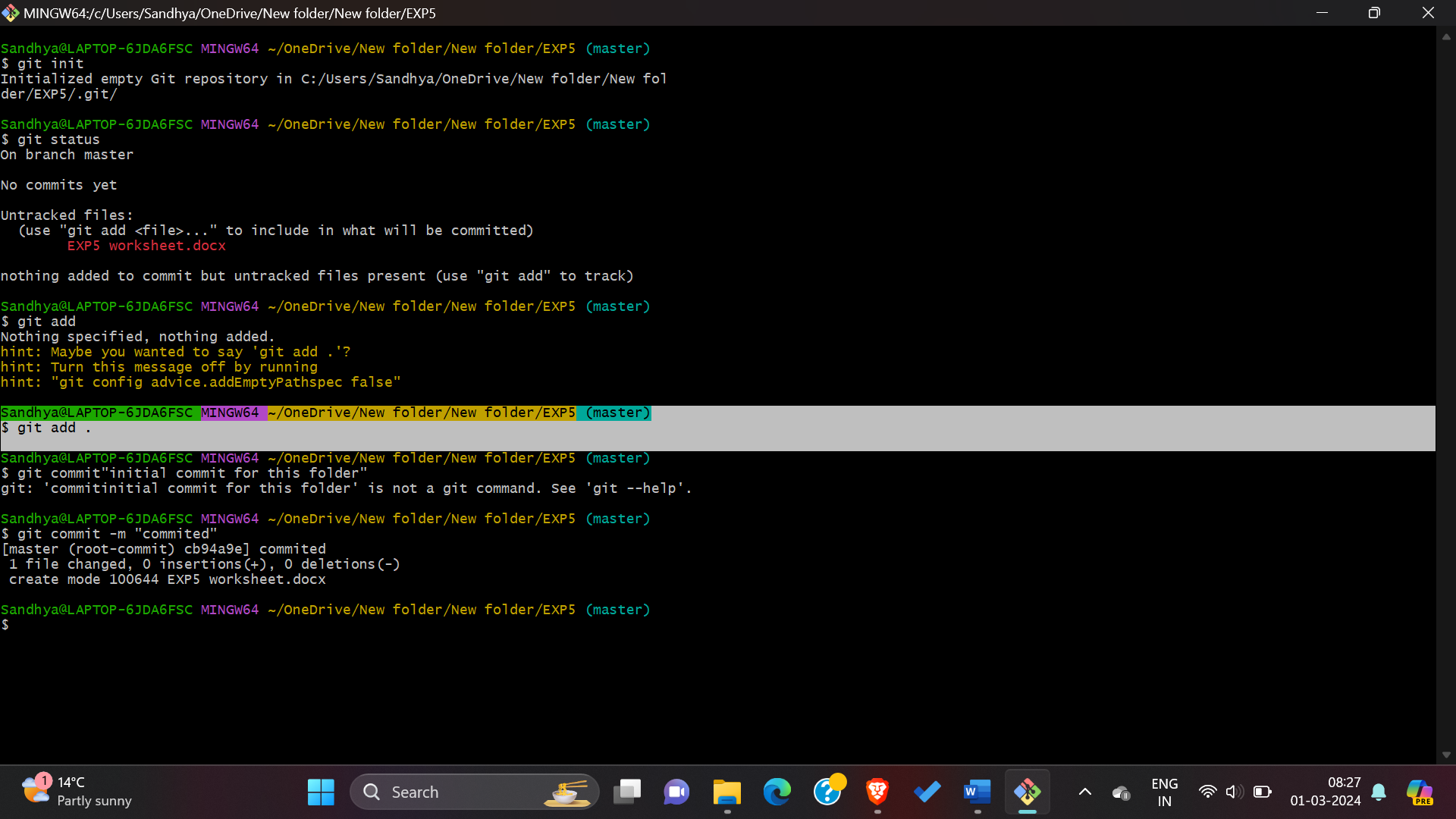
1. **Create the Local Git Repository,** then you will need to create a local repository for your file. However, you will need to use equivalent commands for creating folders and navigating the directory structure so that you understand how to merge in Git.

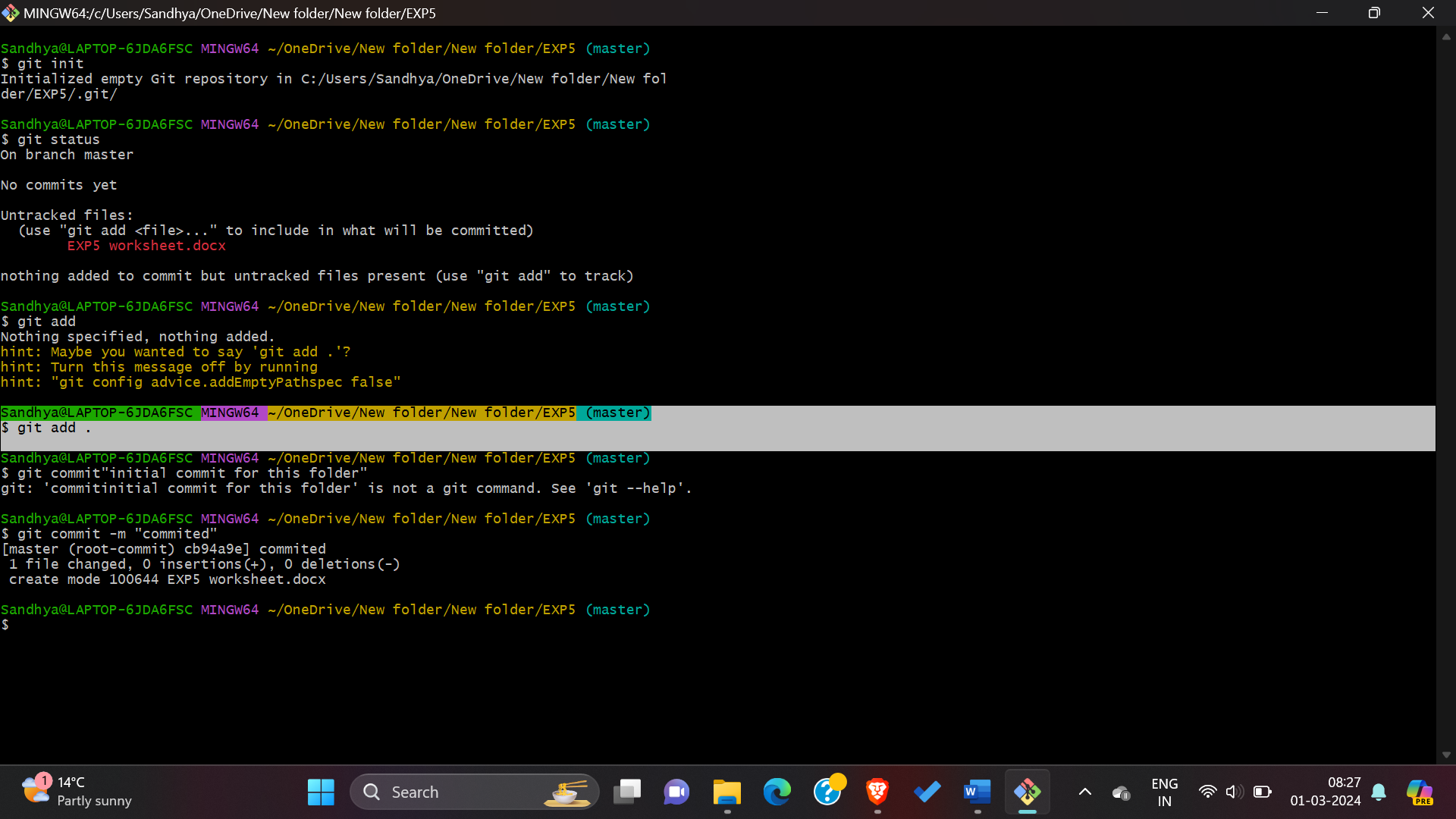
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1. **Create the First Git Commit:** Once you have created the local Git repository, you need to add some files to the folder.

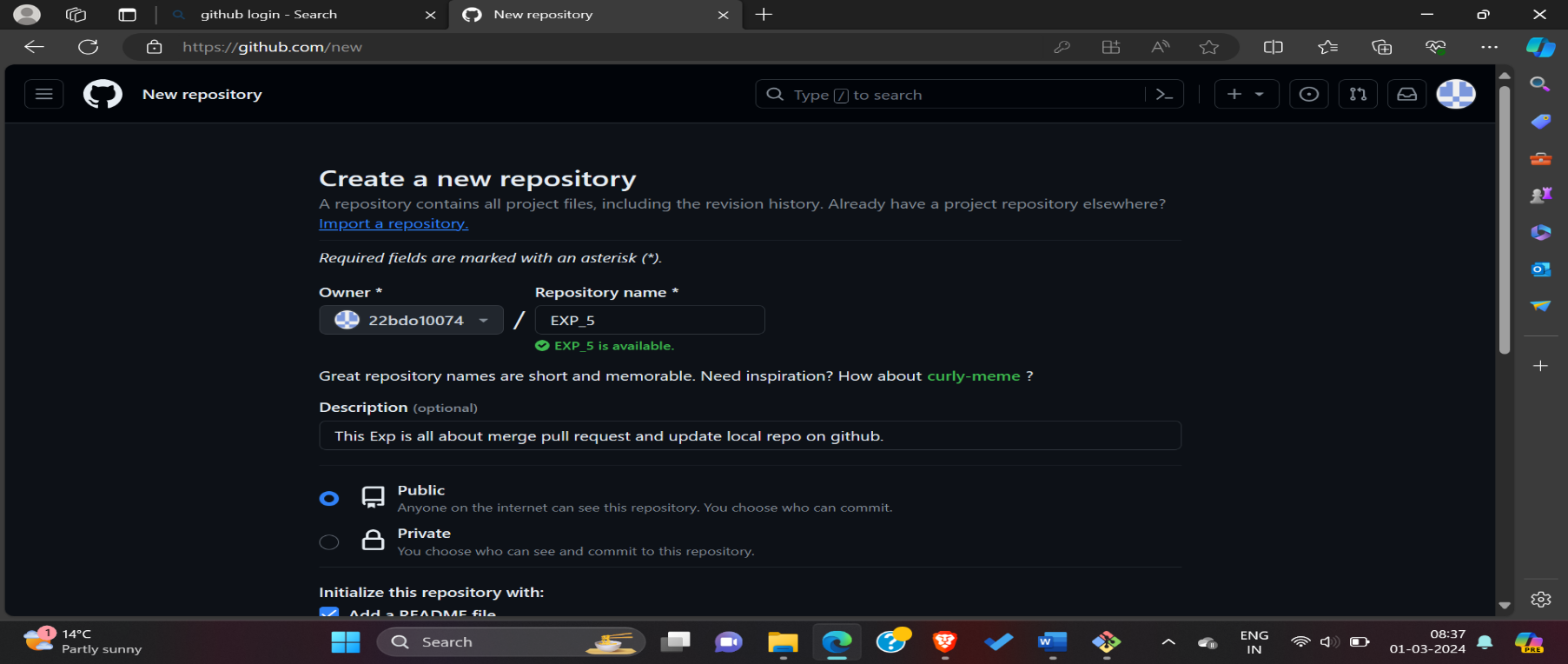
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1. **Then add and the commit it.**

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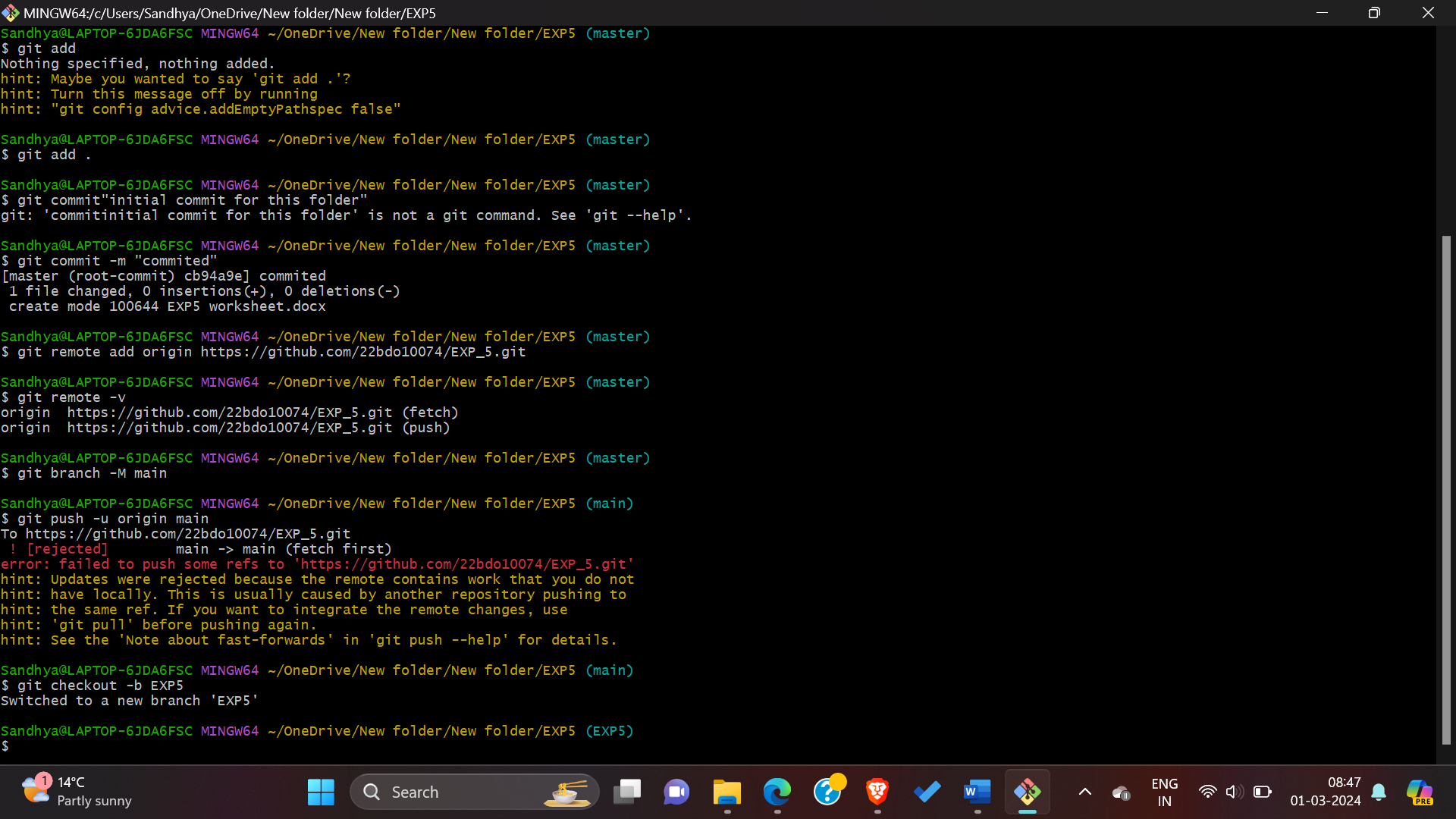
1. **Create the GitHub Repository**: On your GitHub profile page, select Repositories at the top, then click New.



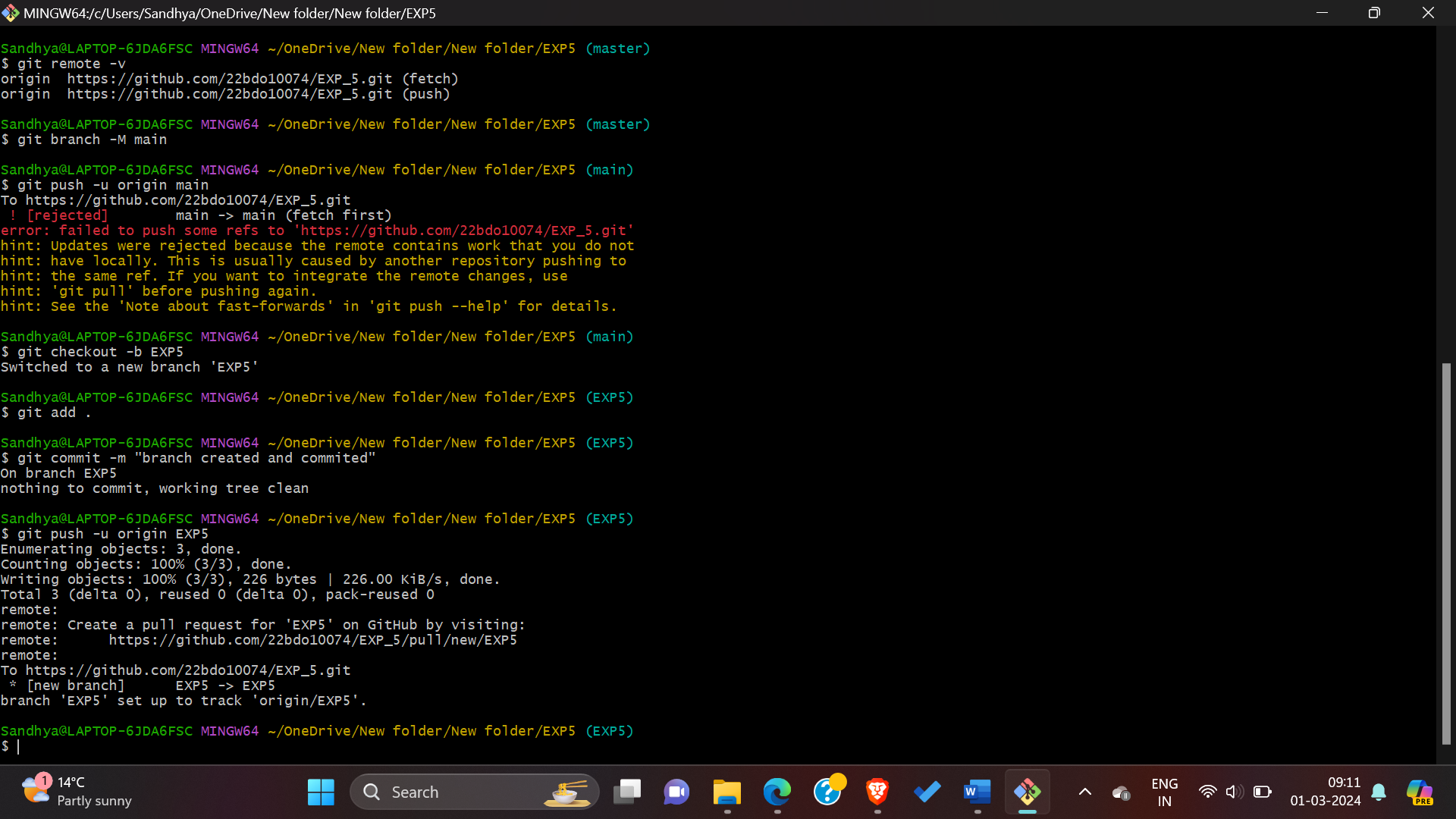
1. **Push Existing Local Git Repository**: Once created, GitHub presents several options for getting started with the new Git repository. You can copy it to your local system, create a new repository on your system and link to it, or import code from another repository.

**a) Add remote repository to local** and verify the origin’s URL matches the remote repository.

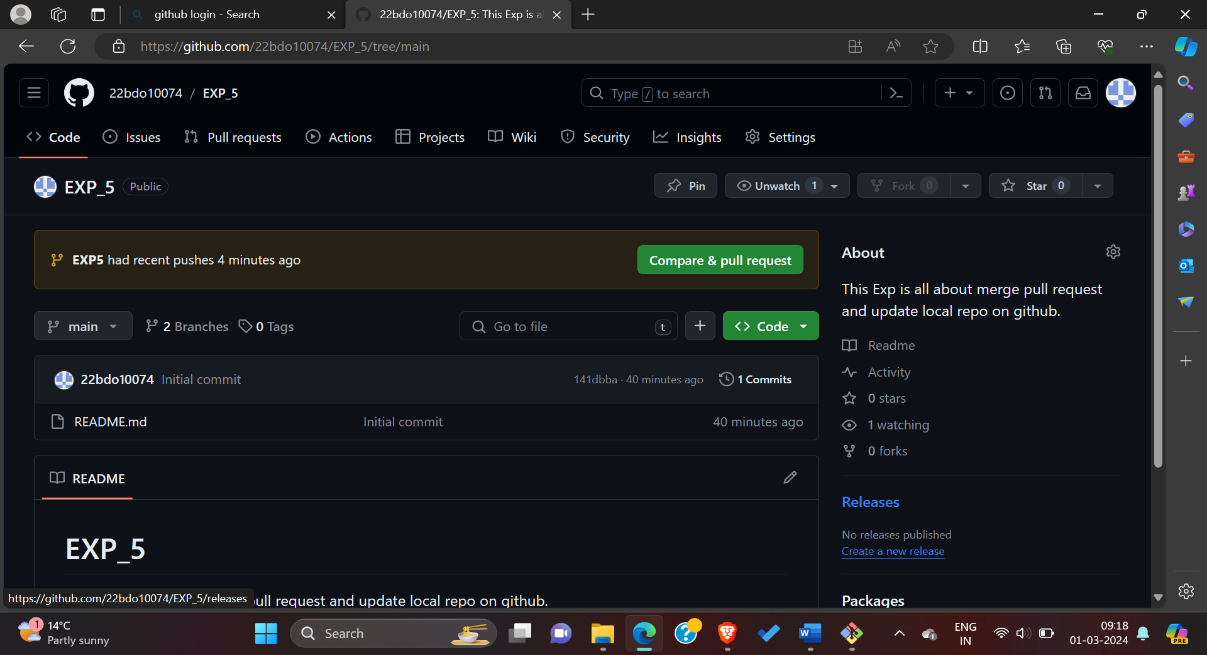
**b) Add git branch and then git push**.



1. Changes pushes successfully on git-hub through git bash commands.

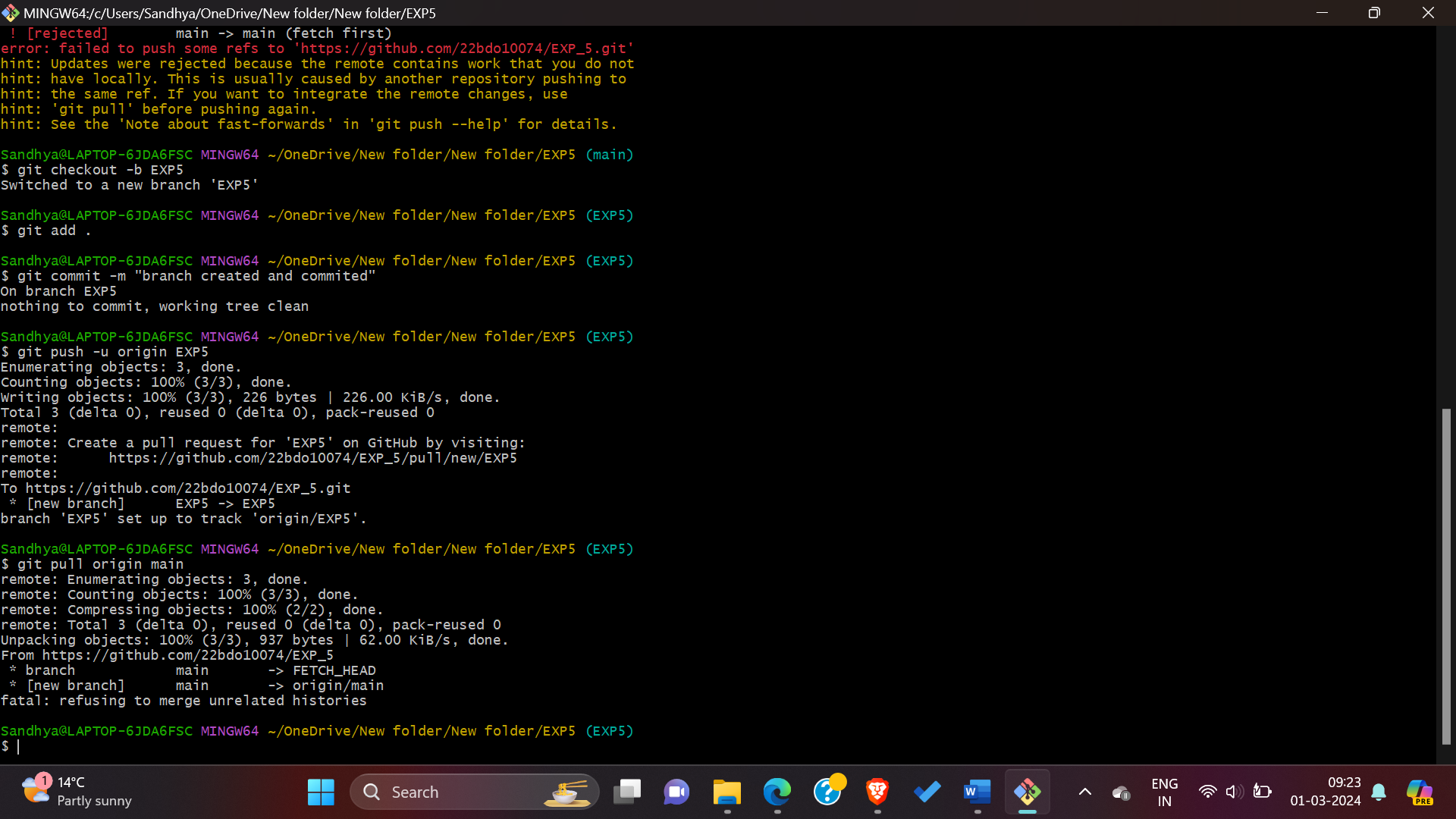


1. **View Updated GitHub Repository**: Back in GitHub, refresh the repository’s page currently display the code examples, and you should see your local files now available in the repository.

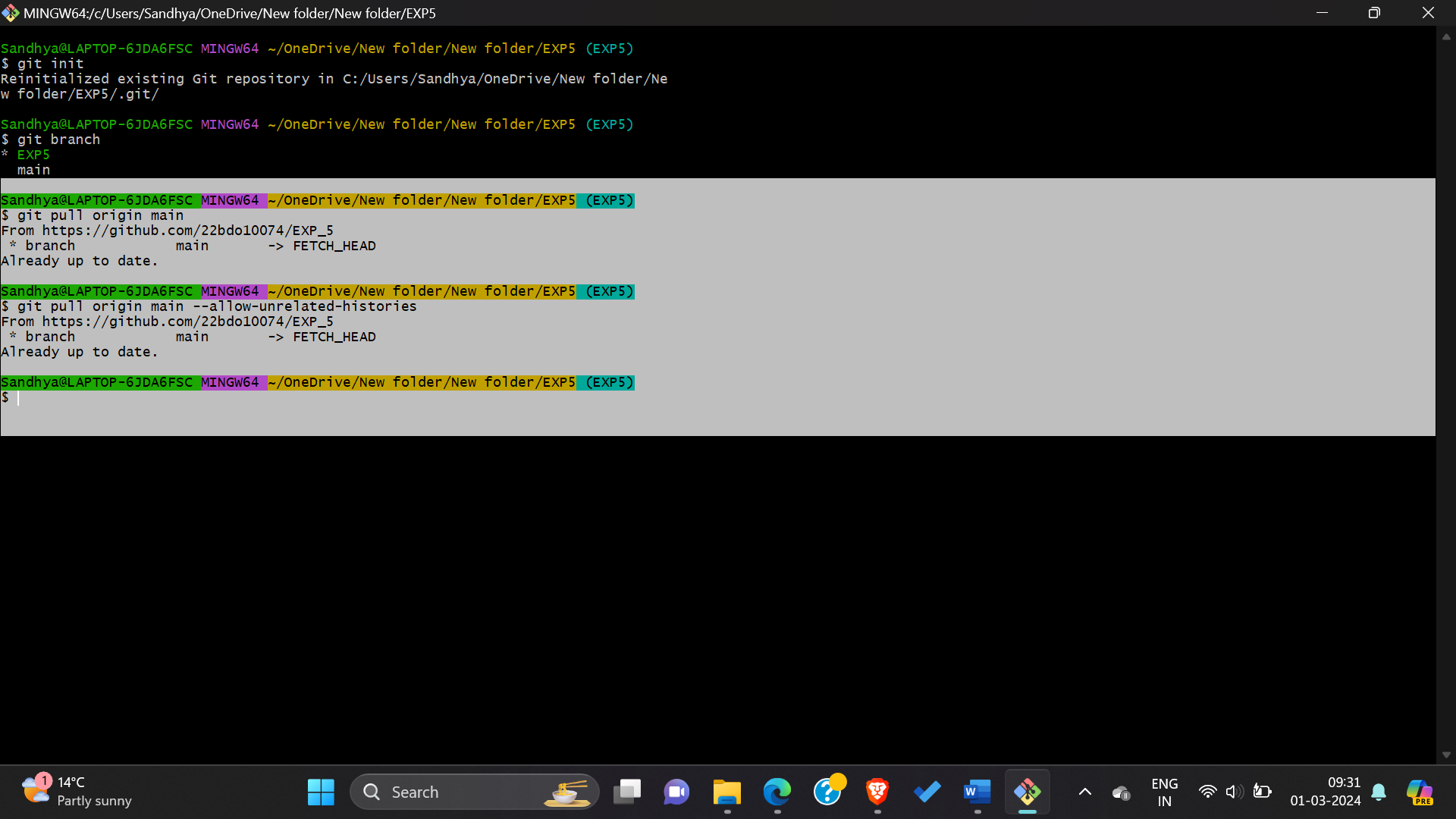


1. **Merge Unrelated Histories**: Next, I want to pull down the contents of the GitHub remote repository to my local system, which is just the README.md file. I can accomplish using the git pull command and specifying the origin remote repository and the local main branch.

However, this command will result in a fatal error-*Fatal: refusing to merge unrelated histories.*

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1. we can force Git to merge the two despite the unrelated histories with the —*allow-unrelated-histories* parameter, like this:- git pull origin main --allow-unrelated-histories.

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**10) Observations/Discussions:** we learned how to merge in Git by taking a local code repository and connecting it to a remote GitHub repository. By putting your code in a remote-hosted repository.

**11) Results:** Successfully performed this experiment about merge pull request and update local repositories on git-hub.

**12) Learning outcomes (What I have learnt):**

**1.** Understanding Git Workflow.

**2.** Learnt about commit, merge and add commands.

**3.** Version Control Proficiency.

**4.** Committing changes.

5. Learnt about how to pull request and push in git bash.

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

|  |  |  |  |
| --- | --- | --- | --- |
| Sr. No. | Parameters | Marks Obtained | Maximum Marks |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
|  |  |  |  |