**Practical No. 2**

**Aim:** To create GIT Repository and execute different git commands.

**Code:**

1. **Creation of branch and merging files:**

A screen shot of a computer

Description automatically generated

A screen shot of a computer program

Description automatically generated

**Output:**

A screenshot of a computer

Description automatically generated

Files present in the master branch

code written in add.py file

Master branch

A screenshot of a computer

Description automatically generated

Branch created other than master branch

A screenshot of a computer

Description automatically generated

add.py file in the new branch created with a new code in the file

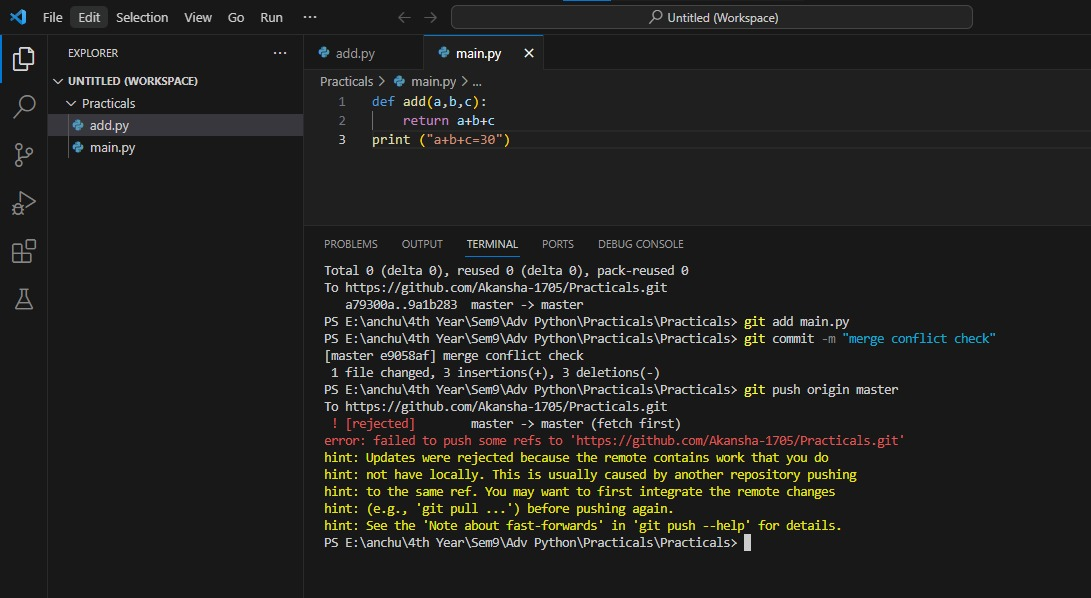
Shifted to new branch

A screenshot of a computer

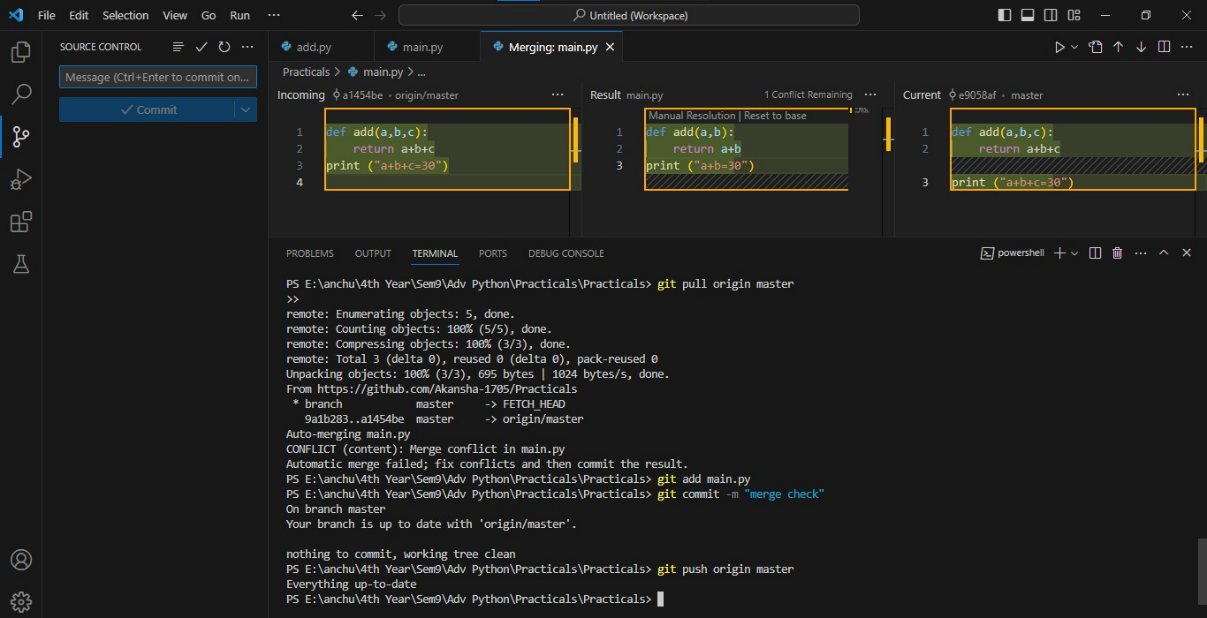
Description automatically generated

New branch merged with the master branch

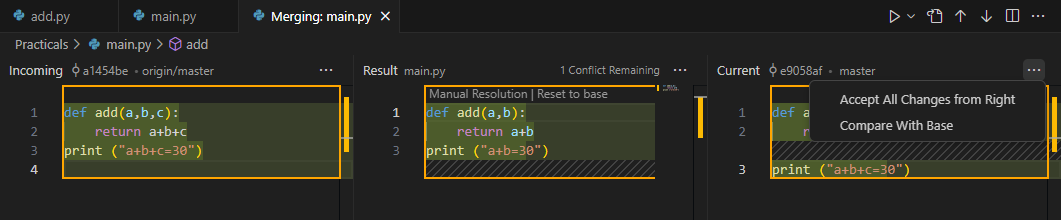
**Merge conflict:**



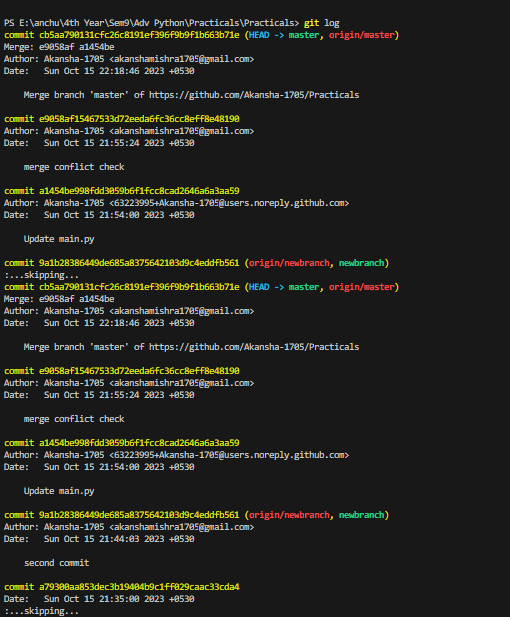
Merge conflict- An error occurs when same positional change is done between two commits

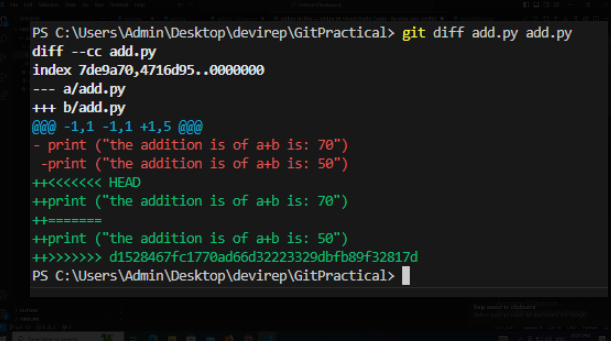


All the changes were accepted that occurred between the two commits



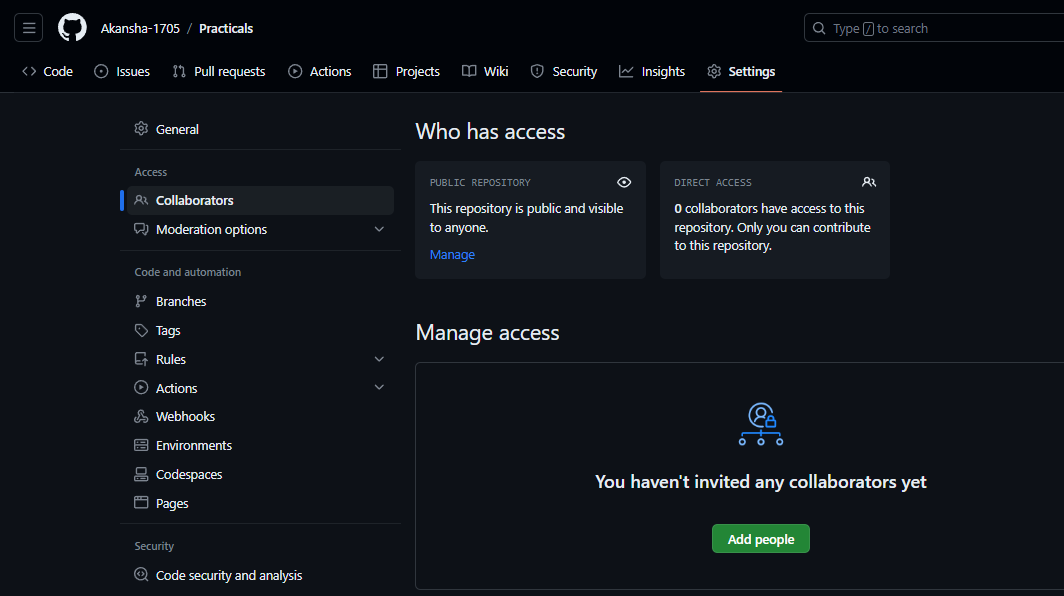
1. **Git log and git diff implementation:**

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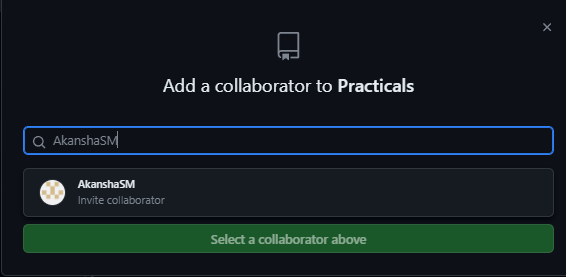


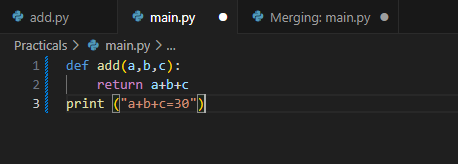
The differences between the two files can be known using the git diff command

1. **Merge conflict between collaborators:**

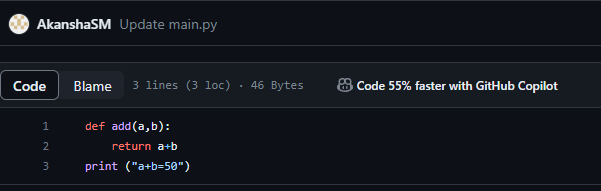
****

Add people to the workspace for working on the same project

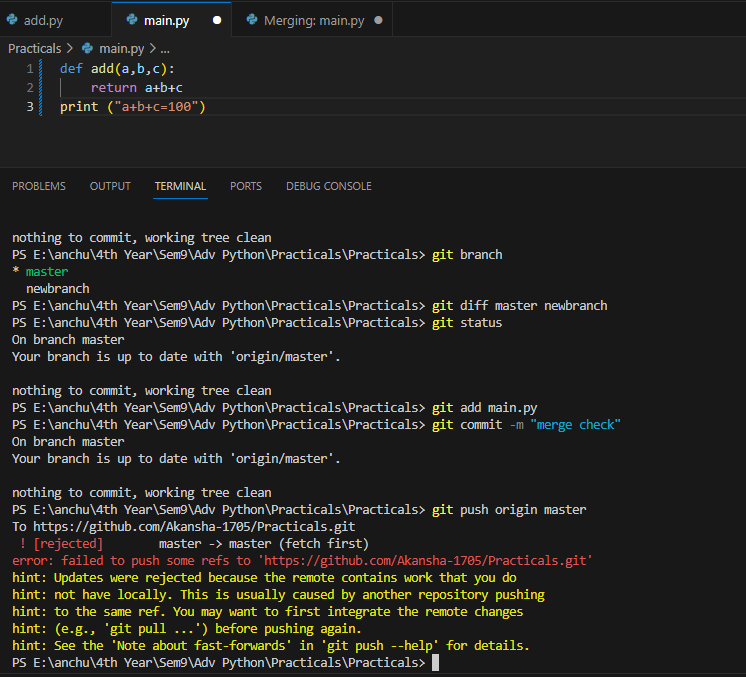




The code in the main file

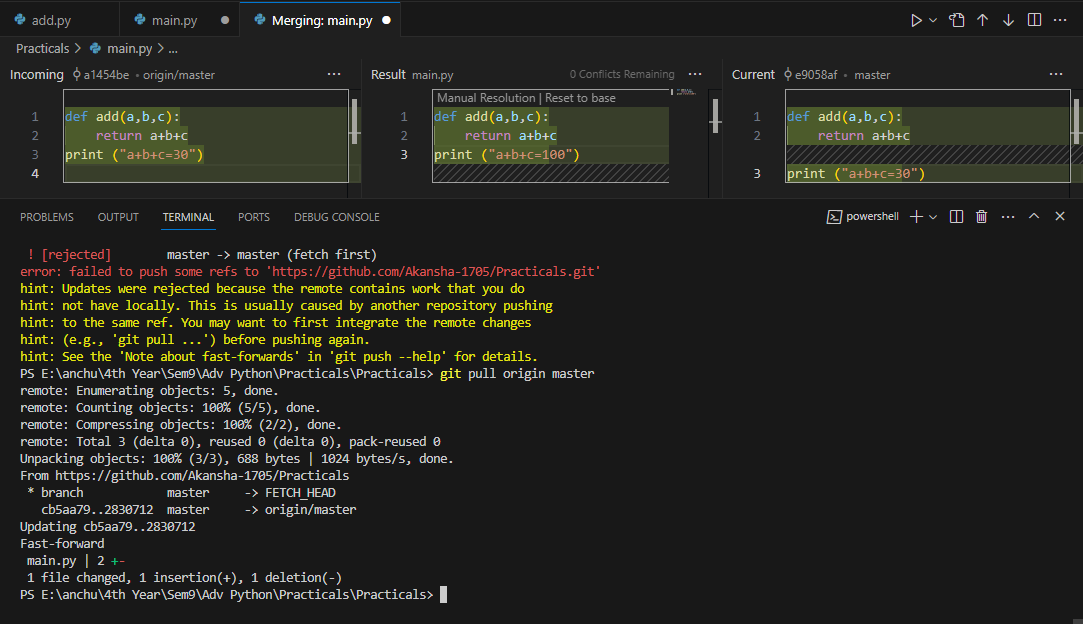


The code changed by the collaborator and committed the changes before the main user

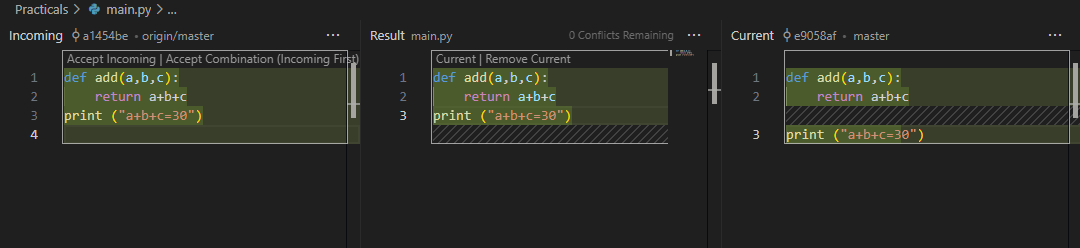


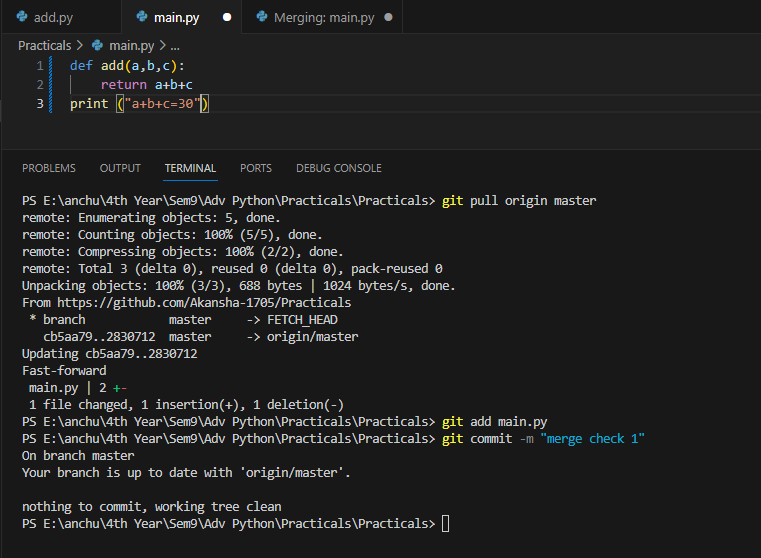
As the changes were committed by the collaborator before the user so, an error occurred

At the same time the code was changed in the main file and committed



The branch was pulled back and changes are accepted by the user





Changes got reflected in the main file after accepting the merge conflict from collaborator