

Git and GitHub Practical Exam

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Steps:

Creating repository:

Meet - kqi-gbmin-kju x New repository x +

github.com/new

New repository

Search Type to search

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner * Repository name *

SahebRana / bjet13_group_2

✓ bjet13_group_2 is available.

Great repository names are short and memorable. Need inspiration? How about [animated-adventure](#) ?

Description (optional)

☒ Public
Anyone on the internet can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

Initialize this repository with:

☒ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

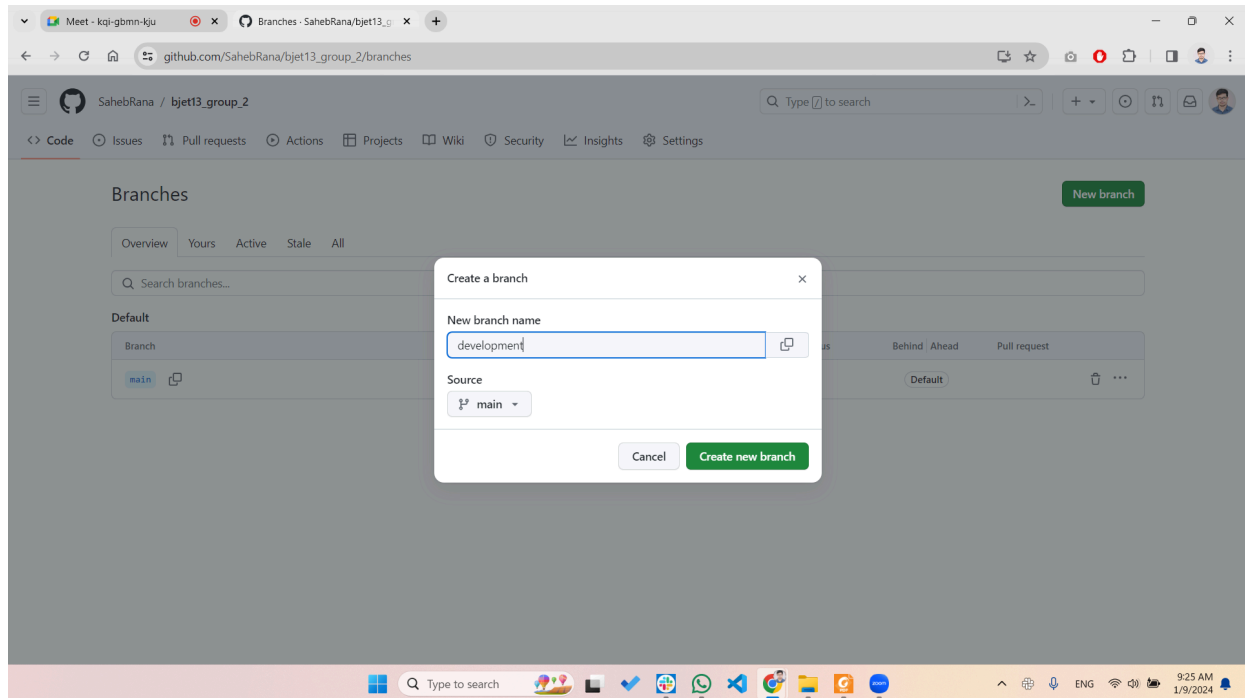
.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)

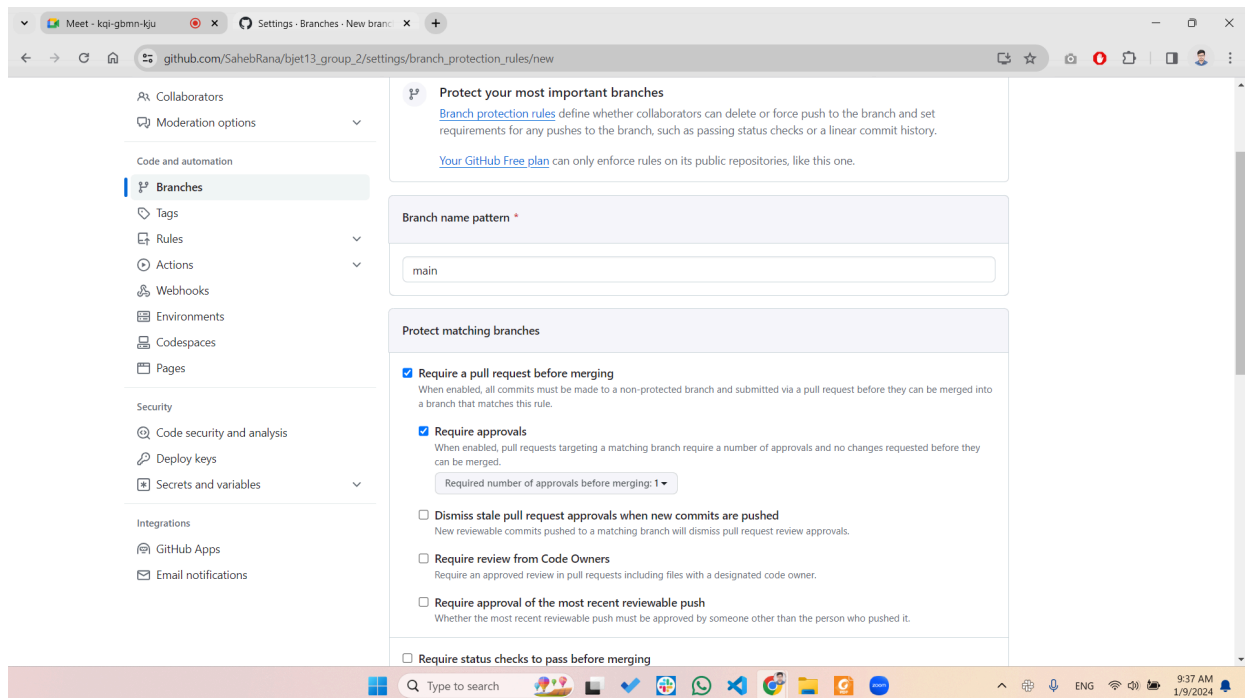
Type to search

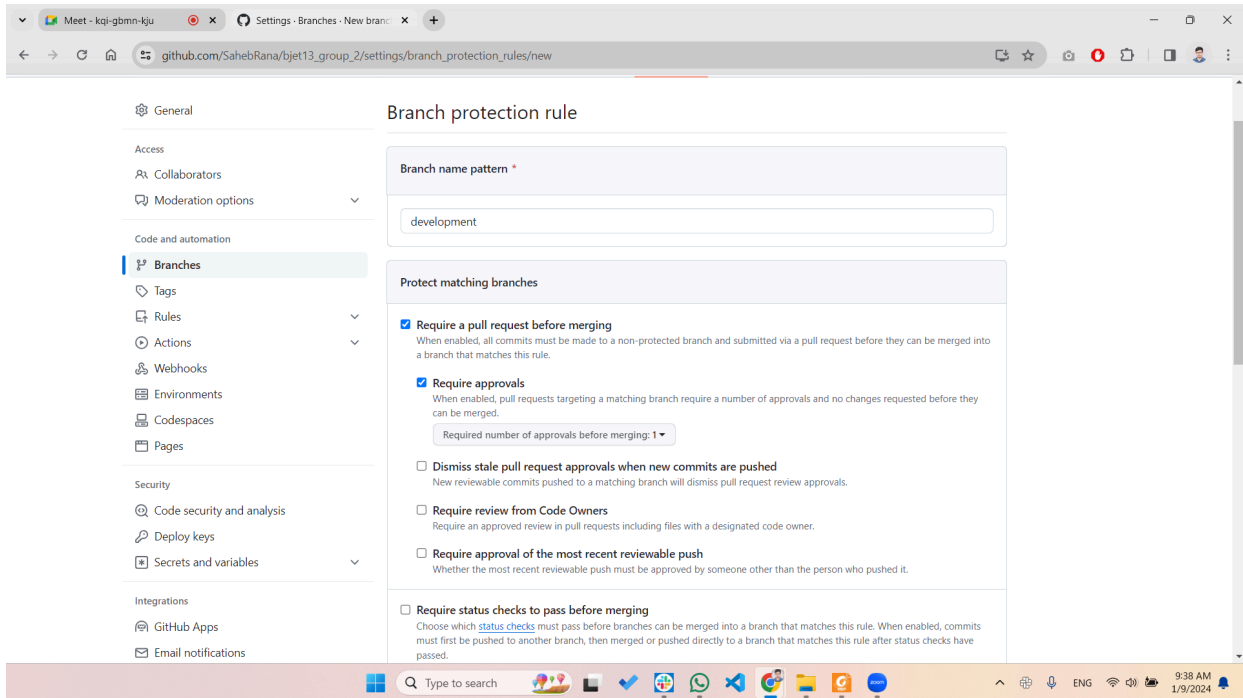
9:24 AM 1/9/2024

Creating development branch:



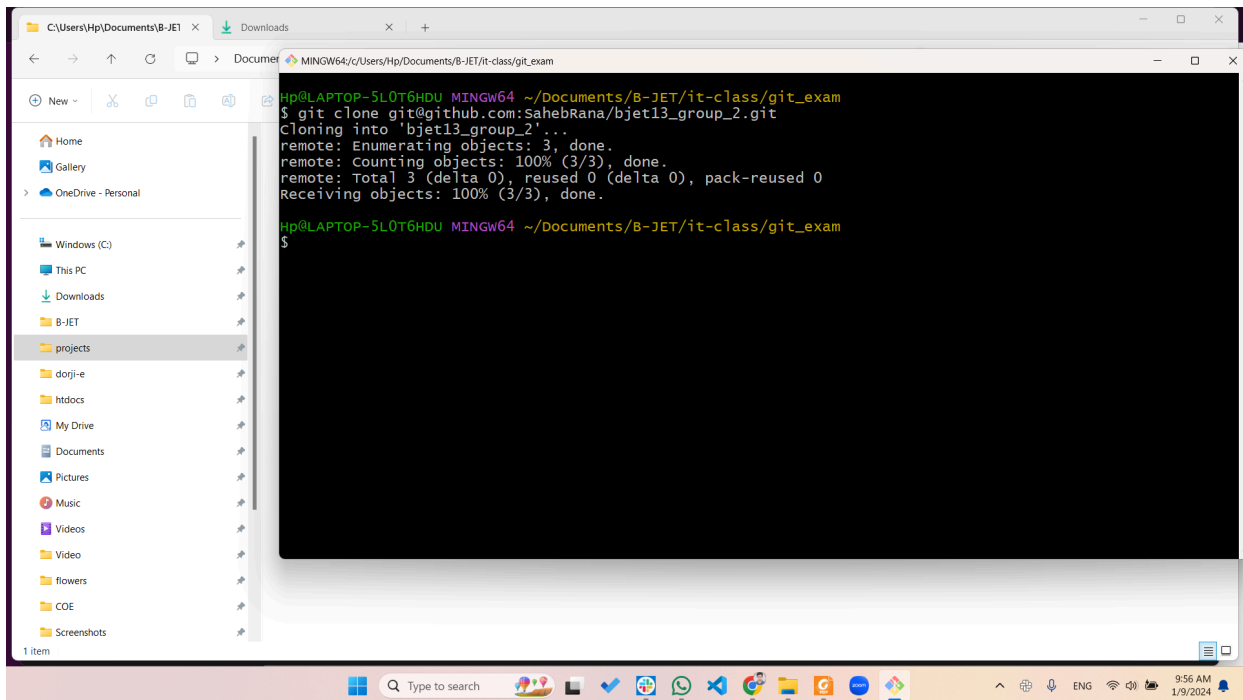
Protecting branches:



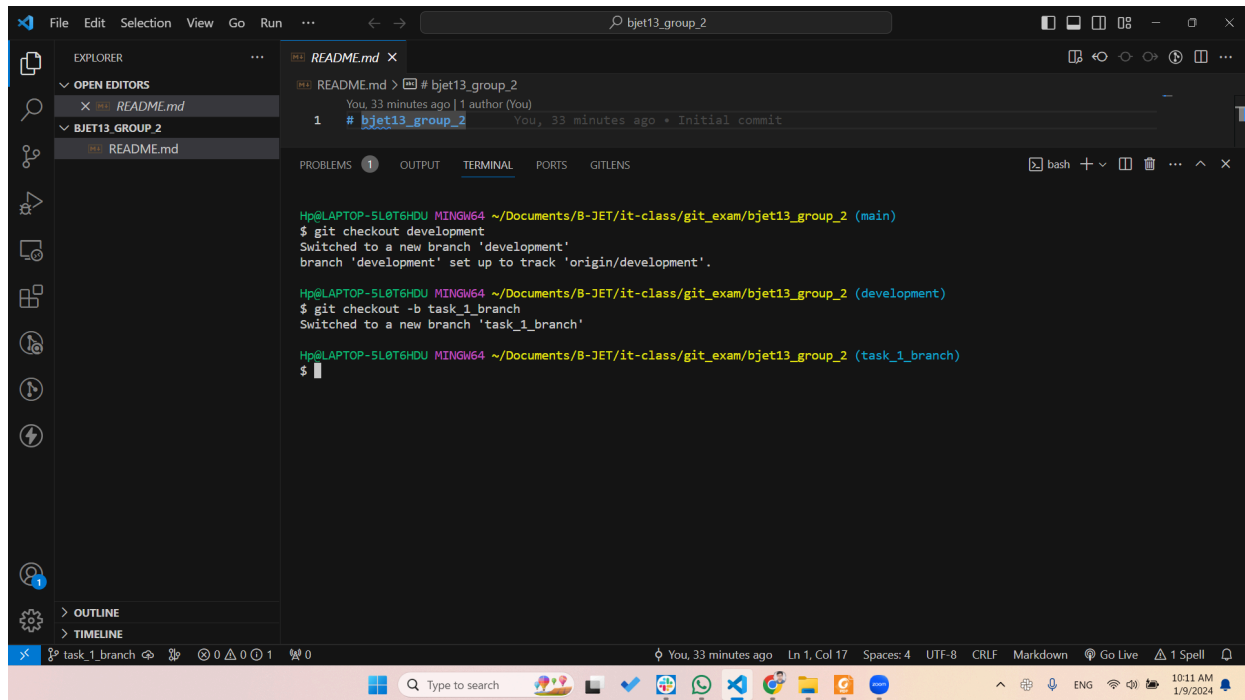


Cloning Repository:

Command: `git clone git@github.com:SahebRana/bjet13_group_2.git`



Creating Local branch:



The screenshot shows the Visual Studio Code interface with a terminal window open. The Explorer sidebar on the left shows the file structure with 'README.md' and 'BJET13_GROUP_2'. The main editor area displays the 'README.md' file. The terminal window shows the following commands and output:

```
Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (main)
$ git checkout development
Switched to a new branch 'development'
branch 'development' set up to track 'origin/development'.

Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (development)
$ git checkout -b task_1_branch
Switched to a new branch 'task_1_branch'

Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$
```

The status bar at the bottom indicates the current branch is 'task_1_branch' and the file encoding is UTF-8.

Updating ReadMe file in origin:

The image consists of two screenshots of a web browser displaying the GitHub web editor interface for the file `README.md` in the `development` branch of the repository `bjet13_group_2`.

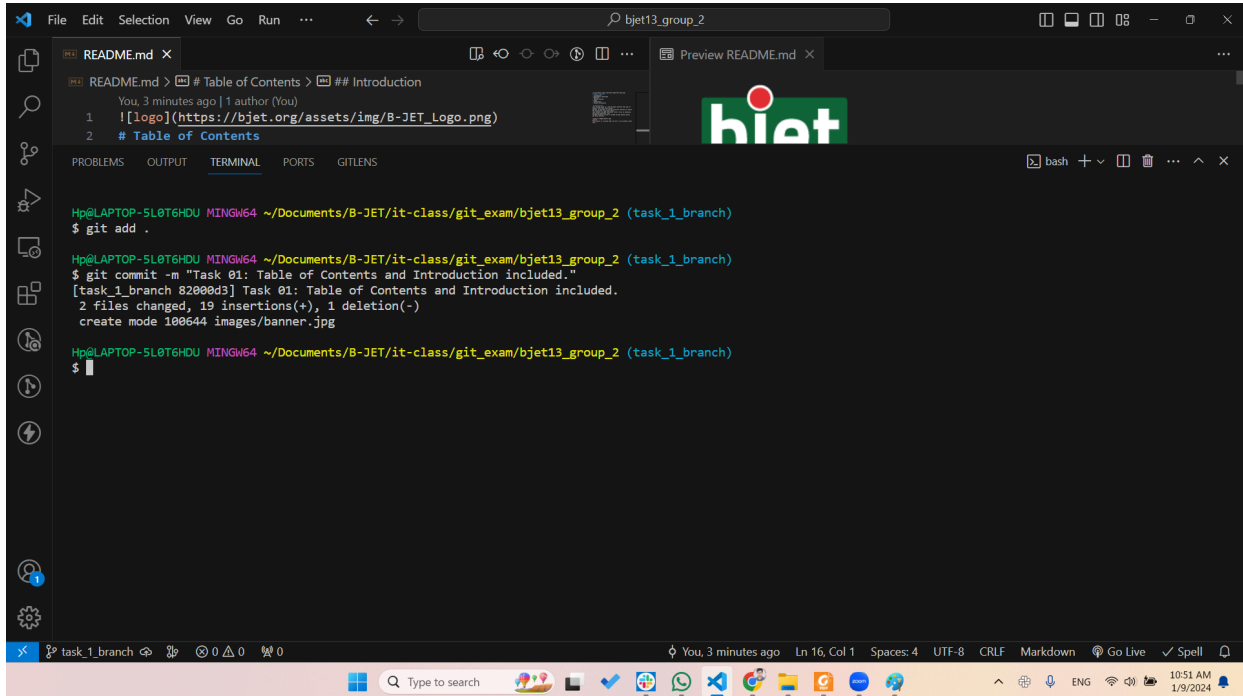
Top Screenshot: The editor shows the content of `README.md` with line numbers 1 through 9. The text includes a heading `# Local Dining Guide`, a subheading `Web Based Dining Information Solution`, and a paragraph describing the project. At the top right, there are buttons for `Cancel changes` and `Commit changes...`. Below the editor, there is a status bar with instructions: `Use Control + Shift + = to toggle the tab key moving focus. Alternatively, use esc then tab to move to the next interactive element on the page.` and `Attach files by dragging & dropping, selecting or pasting them.`

Bottom Screenshot: The same editor is shown, but with a `Commit changes` modal dialog open in the center. The modal has the following fields and options:

- Commit message:** A text input field containing `Task 0: README.md file updated in github origin`.
- Extended description:** A text area with the placeholder text `Add an optional extended description..`.
- Commit Email:** A dropdown menu showing `m.sahebrana@gmail.com`.
- Commit options:** Two radio buttons. The first is selected: `Commit directly to the development branch`. Below it is a warning: `Some rules will be bypassed by committing directly`. The second option is `Create a new branch for this commit and start a pull request`, with a link `Learn more about pull requests` below it.
- Buttons:** `Cancel` and `Bypass rules and commit changes`.

The background editor and status bar are visible but dimmed behind the modal.

Doing task and committing:



The screenshot shows the Visual Studio Code interface with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays a README.md file with the following content:

```
1 You, 3 minutes ago | 1 author (You)
2 ![[logo]](https://bjet.org/assets/img/B-JET_Logo.png)
3 # Table of Contents
```

The terminal shows the following commands and output:

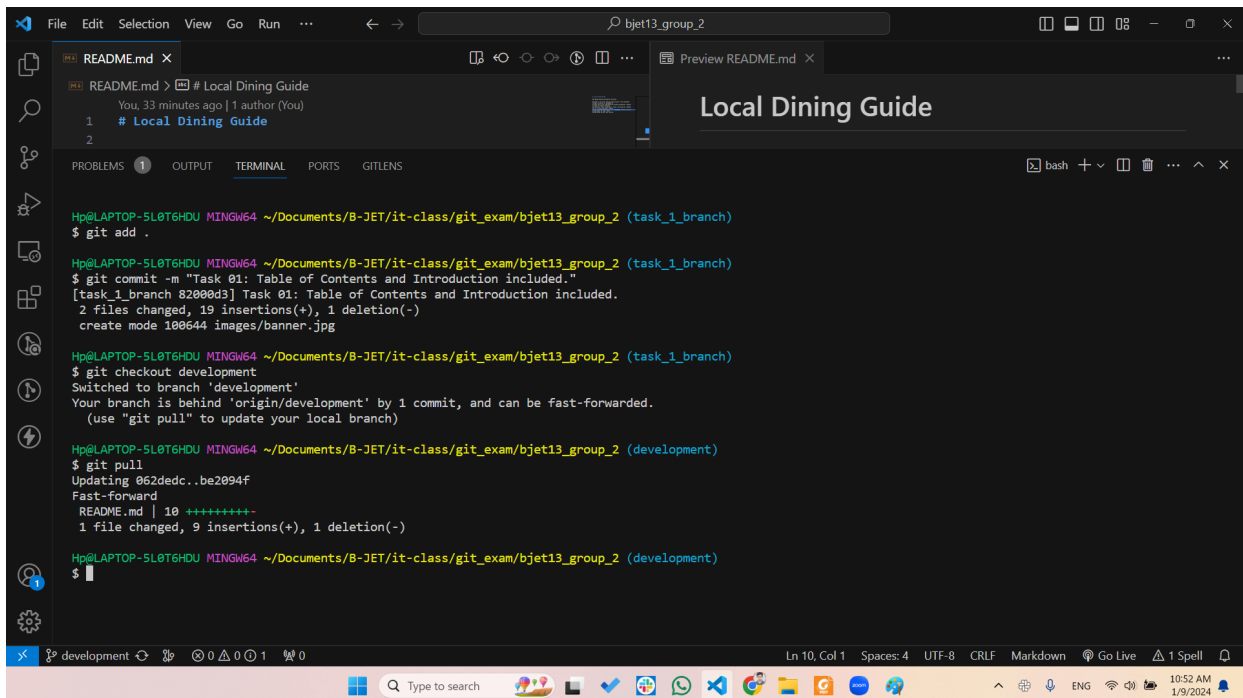
```
Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git add .

Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git commit -m "Task 01: Table of Contents and Introduction included."
[task_1_branch 82000d3] Task 01: Table of Contents and Introduction included.
2 files changed, 19 insertions(+), 1 deletion(-)
create mode 100644 images/banner.jpg

Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$
```

The status bar at the bottom indicates the current branch is task_1_branch, with 0 changes and 0 conflicts.

Updating local development from the origin:



The screenshot shows the Visual Studio Code interface with a file explorer on the left, a code editor in the center, and a terminal at the bottom. The code editor displays a README.md file with the following content:

```
1 You, 33 minutes ago | 1 author (You)
2 # Local Dining Guide
```

The terminal shows the following commands and output:

```
Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git add .

Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git commit -m "Task 01: Table of Contents and Introduction included."
[task_1_branch 82000d3] Task 01: Table of Contents and Introduction included.
2 files changed, 19 insertions(+), 1 deletion(-)
create mode 100644 images/banner.jpg

Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git checkout development
Switched to branch 'development'
Your branch is behind 'origin/development' by 1 commit, and can be fast-forwarded.
(use "git pull" to update your local branch)

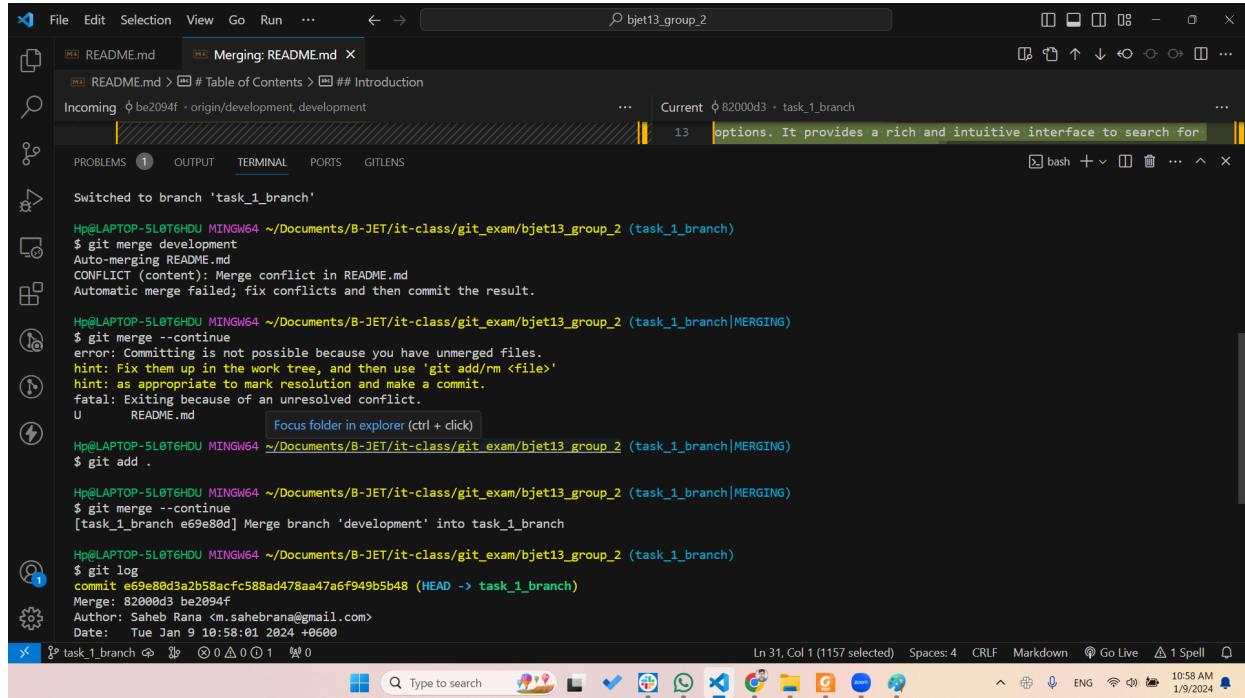
Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (development)
$ git pull
Updating 062dedc..be2094f
Fast-forward
 README.md | 10 ++++++
1 file changed, 9 insertions(+), 1 deletion(-)

Hp@LAPTOP-5L0T6H DU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (development)
$
```

The status bar at the bottom indicates the current branch is development, with 1 change and 0 conflicts.

Merging development with local working branch and resolving conflict:

git merge development



The screenshot shows a VS Code terminal window with the following content:

```
Switched to branch 'task_1_branch'

Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git merge development
Auto-merging README.md
CONFLICT (content): Merge conflict in README.md
Automatic merge failed; fix conflicts and then commit the result.

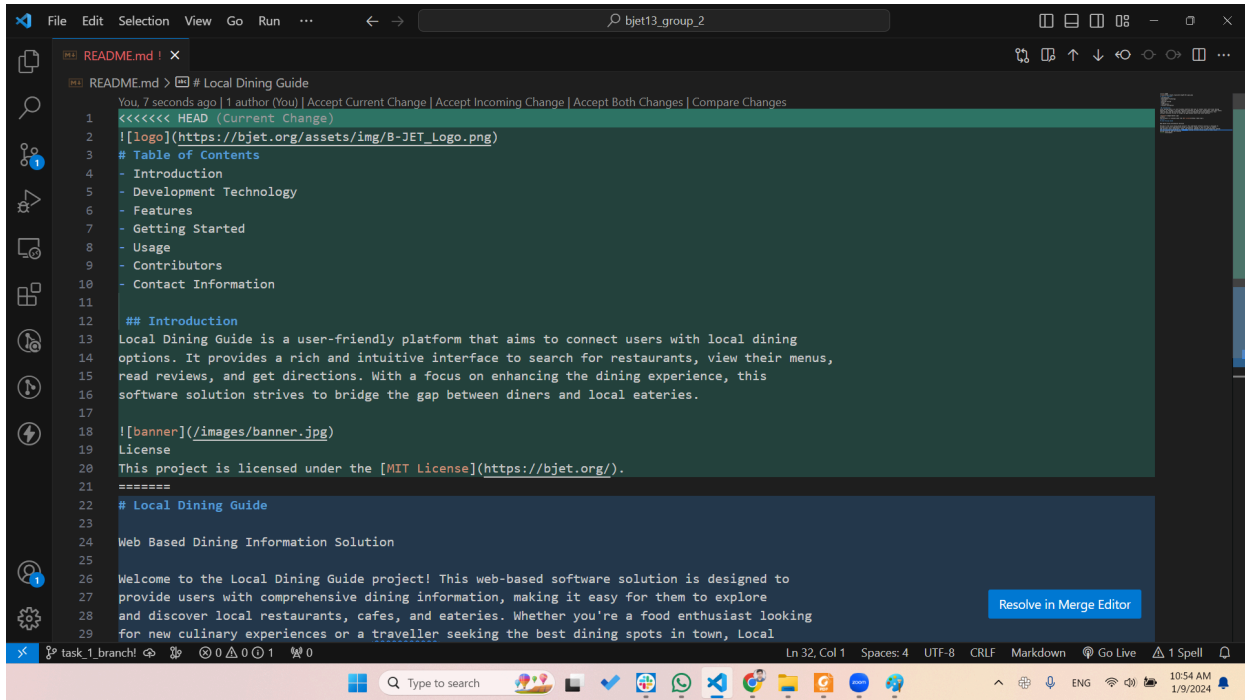
Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch|MERGING)
$ git merge --continue
error: Committing is not possible because you have unmerged files.
hint: Fix them up in the work tree, and then use 'git add/rm <file>'
hint: as appropriate to mark resolution and make a commit.
fatal: Exiting because of an unresolved conflict.
U      README.md

Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch|MERGING)
$ git add .

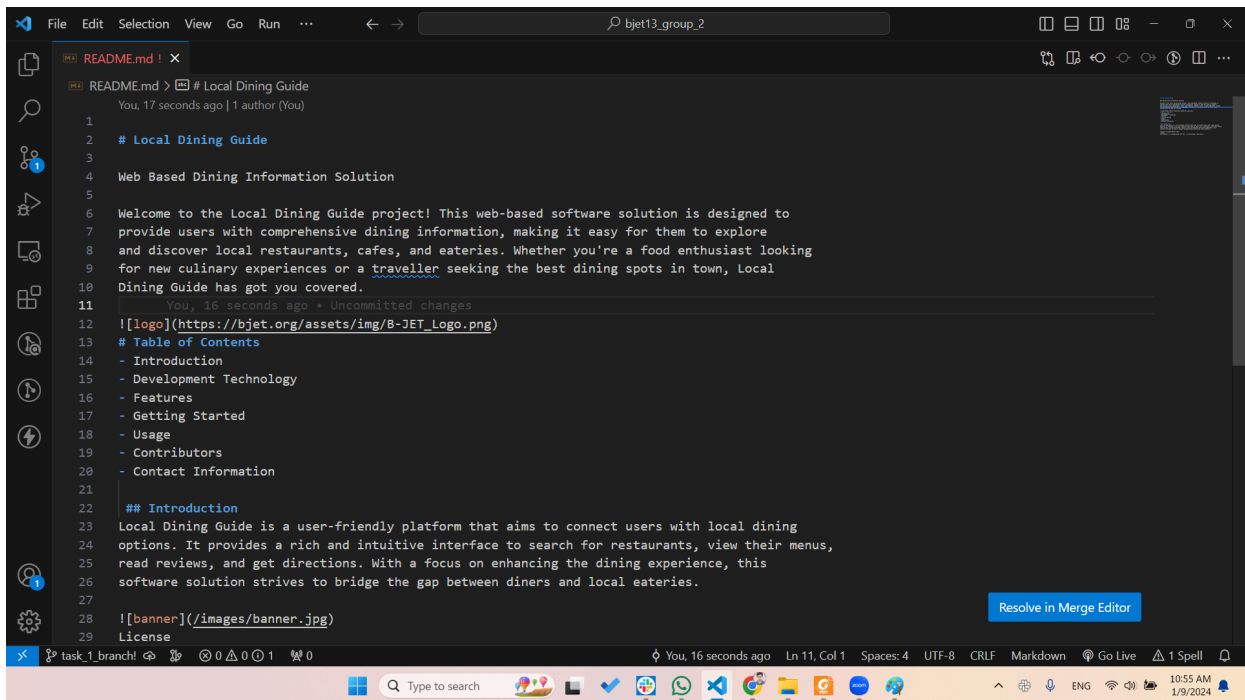
Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch|MERGING)
$ git merge --continue
[task_1_branch e69e80d] Merge branch 'development' into task_1_branch

Hp@LAPTOP-SL0T6HDU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git log
commit e69e80d3a2b58acfc588ad478aa47a6f949b5b48 (HEAD -> task_1_branch)
Merge: 82000d3 be2094f
Author: Saheb Rana <m.sahebrana@gmail.com>
Date: Tue Jan 9 10:58:01 2024 +0600
```

The terminal output shows the process of merging the 'development' branch into the 'task_1_branch'. It starts with a conflict in 'README.md'. The user attempts to continue the merge, but fails due to unmerged files. They then use 'git add .' to stage the changes, and finally 'git merge --continue' to complete the merge. The final commit message shows the merge of 'development' into 'task_1_branch'.



```
1 <<<<<< HEAD (Current Change)
2 ![[logo]](https://bjet.org/assets/img/B-JET_Logo.png)
3 # Table of Contents
4 - Introduction
5 - Development Technology
6 - Features
7 - Getting Started
8 - Usage
9 - Contributors
10 - Contact Information
11
12 ## Introduction
13 Local Dining Guide is a user-friendly platform that aims to connect users with local dining
14 options. It provides a rich and intuitive interface to search for restaurants, view their menus,
15 read reviews, and get directions. With a focus on enhancing the dining experience, this
16 software solution strives to bridge the gap between diners and local eateries.
17
18 ![[banner]](/images/banner.jpg)
19 License
20 This project is licensed under the [MIT License](https://bjet.org/).
21 =====
22 # Local Dining Guide
23
24 Web Based Dining Information Solution
25
26 Welcome to the Local Dining Guide project! This web-based software solution is designed to
27 provide users with comprehensive dining information, making it easy for them to explore
28 and discover local restaurants, cafes, and eateries. Whether you're a food enthusiast looking
29 for new culinary experiences or a traveller seeking the best dining spots in town, Local
```



```
1 # Local Dining Guide
2
3 Web Based Dining Information Solution
4
5 Welcome to the Local Dining Guide project! This web-based software solution is designed to
6 provide users with comprehensive dining information, making it easy for them to explore
7 and discover local restaurants, cafes, and eateries. Whether you're a food enthusiast looking
8 for new culinary experiences or a traveller seeking the best dining spots in town, Local
9 Dining Guide has got you covered.
10
11 You, 16 seconds ago • Uncommitted changes
12 ![[logo]](https://bjet.org/assets/img/B-JET_Logo.png)
13 # Table of Contents
14 - Introduction
15 - Development Technology
16 - Features
17 - Getting Started
18 - Usage
19 - Contributors
20 - Contact Information
21
22 ## Introduction
23 Local Dining Guide is a user-friendly platform that aims to connect users with local dining
24 options. It provides a rich and intuitive interface to search for restaurants, view their menus,
25 read reviews, and get directions. With a focus on enhancing the dining experience, this
26 software solution strives to bridge the gap between diners and local eateries.
27
28 ![[banner]](/images/banner.jpg)
29 License
```

```
git add .
git merge -continue
```



```
commit 062dedc07a5acd4b18525d8814dc7cf41b7fdfe (origin/main, origin/HEAD, main)
Author: Saheb Rana <m.sahebrana@gmail.com>
Date: Tue Jan 9 09:25:16 2024 +0600

Initial commit

Hp@LAPTOP-5L0T6DHU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git push
fatal: The current branch task_1_branch has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin task_1_branch

To have this happen automatically for branches without a tracking
upstream, see 'push.autoSetupRemote' in 'git help config'.

Hp@LAPTOP-5L0T6DHU MINGW64 ~/Documents/B-JET/it-class/git_exam/bjet13_group_2 (task_1_branch)
$ git push --set-upstream origin task_1_branch
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (8/8), 1.97 MiB | 1.01 MiB/s, done.
Total 8 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
remote:
remote: Create a pull request for 'task_1_branch' on GitHub by visiting:
remote:   https://github.com/SahebRana/bjet13_group_2/pull/new/task_1_branch
remote:
To github.com:SahebRana/bjet13_group_2.git
 * [new branch]      task_1_branch -> task_1_branch
branch 'task_1_branch' set up to track 'origin/task_1_branch'.
```

Creating Pull request:

github.com/SahebRana/bjet13_group_2/compare/development...task_1_branch?expand=1

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

base: development ← compare: task_1_branch ✓ Able to merge. These branches can be automatically merged.

Add a title

Task 1: Table of Contents and Introduction included.

Add a description

Write Preview

H B I i <> @ ↺ ↻ ↵

Please merge after review

Markdown is supported Paste, drop, or click to add files

Create pull request

Reviewers

fardeen7

At least 1 approving review is required to merge this pull request.

Assignees

SahebRana

Labels

None yet

Projects

None yet

Milestone

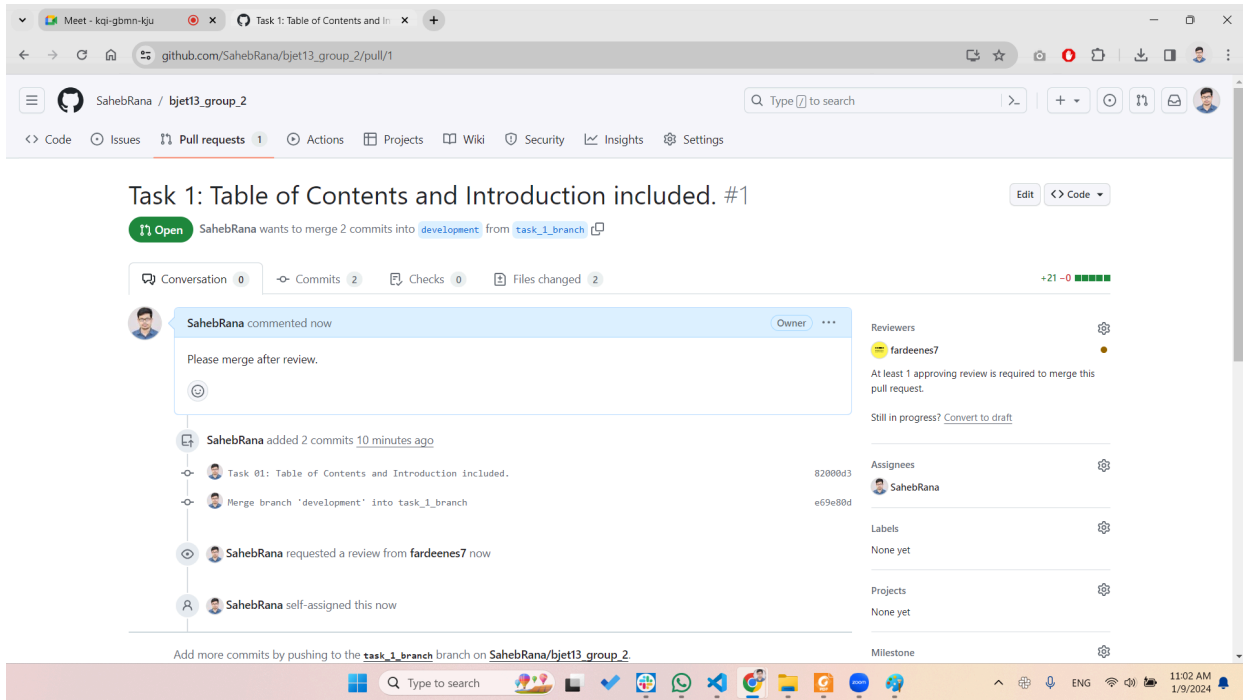
No milestone

Development

Use [closing keywords](#) in the description to automatically close issues

Helpful resources

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).



Merging and deleting branches after approval:

