

A2. Demonstrate to create a project in remote repository and apply fork, merge, diff, merge conflict, branch and pull request concepts on repository using GitHub

Git **fork** command: `git fork`

Description

Creates a copy of another user's repository in your GitHub account for independent changes.

Syntax : `git fork <URL-of-repository>`

URL of Repository: <https://github.com/lohithbandla/test>

Git **merge** command:

Description

Combines changes from one branch into another.

Syntax : `git merge <branch-name>`

Example : `git merge feature-branch`

Git **diff** command:

Description

Shows differences between two branches, commits, or files.

Syntax : `git diff <branch1> <branch2>`

Example : `git diff main feature-branch`

Git **branch** command:

Description

Creates or lists branches for parallel development.

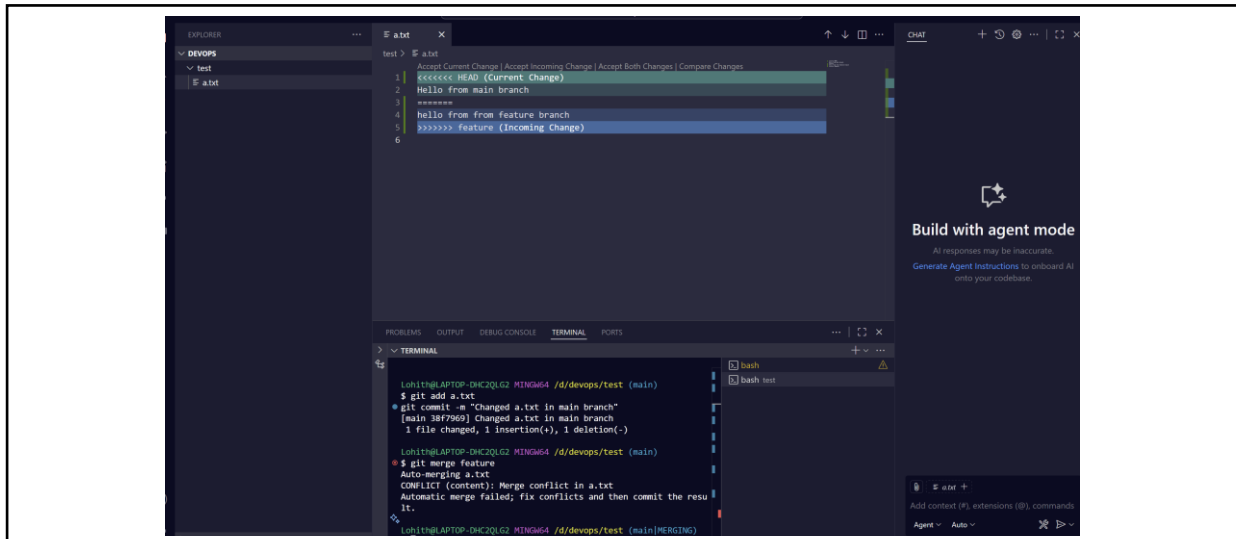
Syntax : `git branch <branch-name>`

Example : `git branch feature-branch`

Git **merge conflict** demonstration :

Description

Occurs when two branches edit the same part of a file. Conflicts must be resolved manually before committing.



Create **pull request** demonstration:

Description

Used to propose merging changes from one branch or fork into another on GitHub.

Example : Create a PR from feature-branch to main in GitHub.

