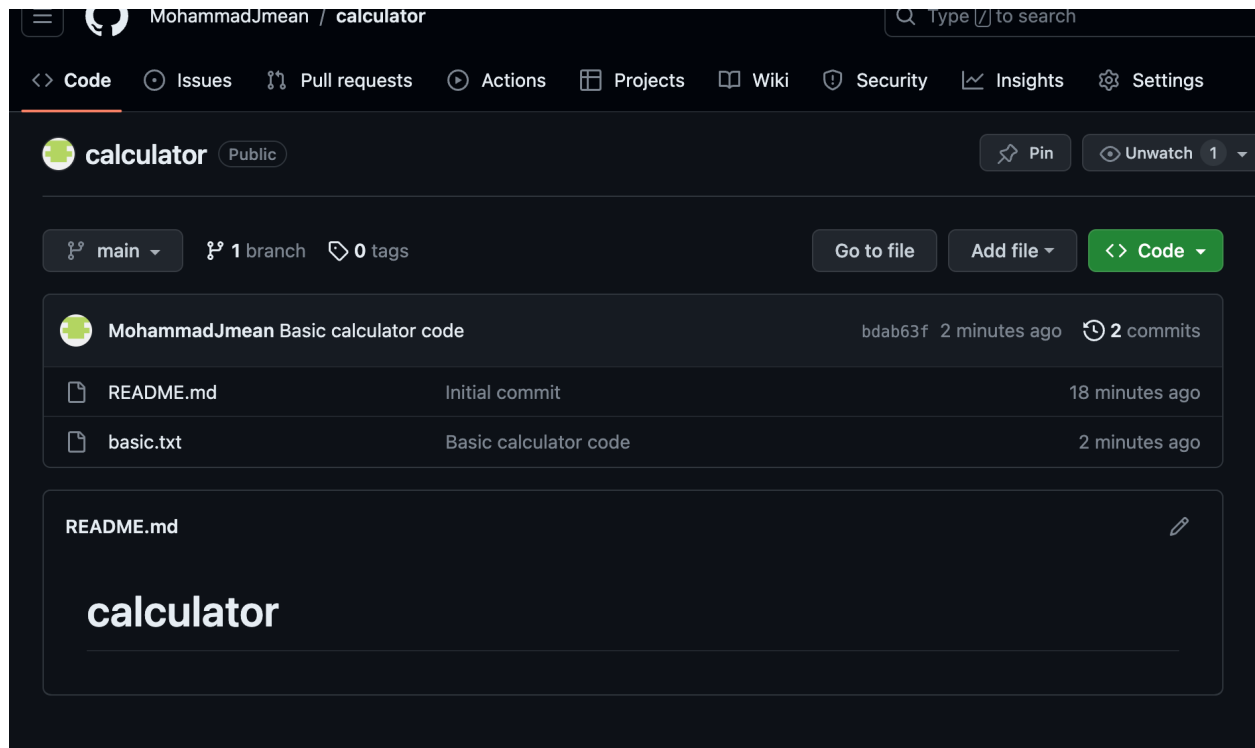


# Appendix: Detailed Workflow Steps

- **create the develop Branch:**

Overview: The initial step creating the main development branch and add a basic calculator code as txt.



- **create develop branch and copy Files from main to develop:**

Overview: Files from the main branch were copied to the develop branch to ensure consistency.

The screenshot shows the GitHub interface for a repository named 'calculator' owned by 'MohammadJmean'. The repository is public and has a 'develop' branch selected. The interface includes a navigation bar with links to Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. Below the repository name, there are buttons for 'Pin', 'Unwatch', and a dropdown menu. The main content area shows the commit history for the 'develop' branch, which is up to date with the 'main' branch. The commit history lists two commits: 'Initial commit' for 'README.md' and 'Basic calculator code' for 'basic.txt'. The 'README.md' file is expanded, showing the title 'calculator'.

MohammadJmean / calculator

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

calculator Public

develop 2 branches 0 tags

Go to file Add file > Code >

This branch is up to date with main. Contribute

MohammadJmean Basic calculator code bdab63f 9 minutes ago 2 commits

README.md	Initial commit	25 minutes ago
basic.txt	Basic calculator code	9 minutes ago

README.md

# calculator

- **create Feature Development - Feature Development - Equation Solver and merge it with develop branch:**

Overview: Mohammad worked on the equation solver feature, creating a feature branch and merge

The screenshot shows the GitHub interface for a repository named 'calculator' owned by 'MohammadJmean'. The repository is public and has a 'develop' branch selected. A notification indicates that the 'develop' branch is 1 commit ahead of 'main'. The commit history shows three commits: 'Add Equation Solver file' (3 minutes ago), 'Initial commit' (31 minutes ago), and 'Basic calculator code' (16 minutes ago). The repository has 2 branches and 0 tags.

MohammadJmean / calculator

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

calculator Public

develop 2 branches 0 tags

This branch is 1 commit ahead of main.

MohammadJmean Add Equation Solver file eb5a33d 3 minutes ago 3 commits

Equation.txt	Add Equation Solver file	3 minutes ago
README.md	Initial commit	31 minutes ago
basic.txt	Basic calculator code	16 minutes ago

- **create Feature Development - Significance Graph and merge it with develop branch:**

Overview: Ali worked on the significance graph feature, following a similar process as the equation solver.

MohammadJmean / calculator

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

calculator Public

develop 2 branches 0 tags

This branch is 2 commits ahead of main.

MohammadJmean Add Significance Graph file a312412 1 minute ago 4 commits

Equation.txt	Add Equation Solver file	4 minutes ago
README.md	Initial commit	33 minutes ago
basic.txt	Basic calculator code	17 minutes ago
significance.txt	Add Significance Graph file	1 minute ago

- **Release Management:**

Overview: Creating a release branch, preparing for release, and merging into both main and develop.

This screenshot shows the GitHub interface for the 'calculator' repository by user 'MohammadJmean'. The 'Code' tab is selected. A notification bar at the top indicates that the 'release/v1.0' branch has recent pushes less than a minute ago, with a 'Compare & pull request' button. Below this, the current branch is 'develop', which is 2 commits ahead of the 'main' branch. The commit history shows four commits by 'MohammadJmean', with the most recent being 'Add Significance Graph file' (commit a312412) 16 minutes ago. The commit list includes files: Equation.txt, README.md, basic.txt, and significance.txt.

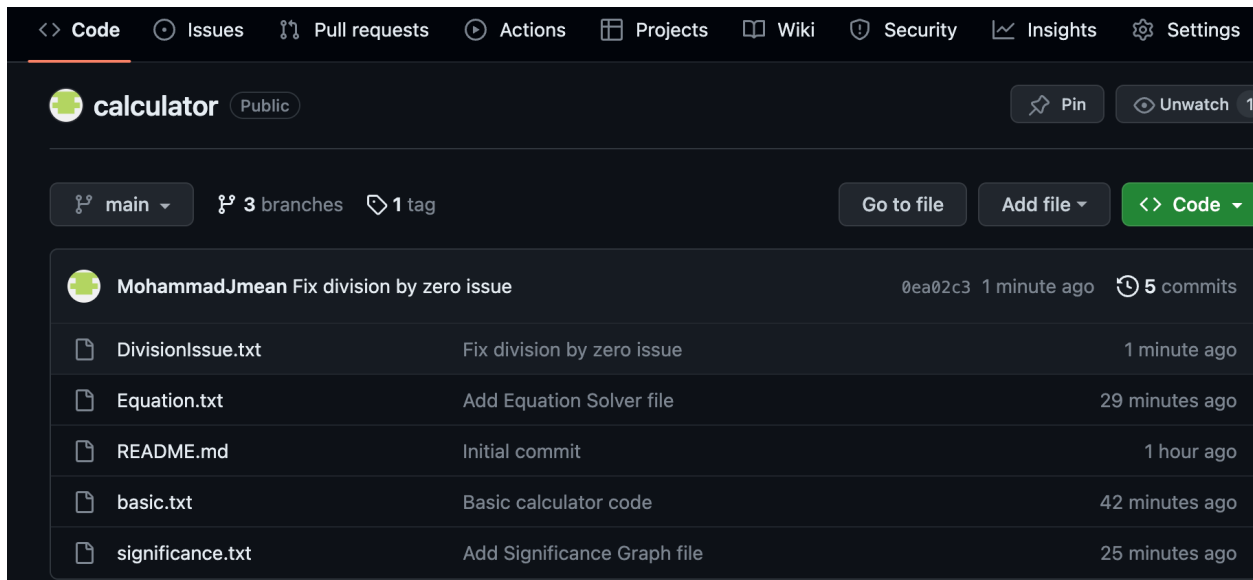
File	Description	Time
Equation.txt	Add Equation Solver file	20 minutes ago
README.md	Initial commit	48 minutes ago
basic.txt	Basic calculator code	32 minutes ago
significance.txt	Add Significance Graph file	16 minutes ago

This screenshot shows the same GitHub repository 'calculator' but with the 'release/v1.0' branch selected. The notification bar remains the same. The branch status now shows 'release/v1.0' is 2 commits ahead of 'main'. The commit history is identical to the previous screenshot, showing the same four commits by 'MohammadJmean', with the most recent being 'Add Significance Graph file' (commit a312412) 17 minutes ago. The commit list includes files: Equation.txt, README.md, basic.txt, and significance.txt.

File	Description	Time
Equation.txt	Add Equation Solver file	21 minutes ago
README.md	Initial commit	49 minutes ago
basic.txt	Basic calculator code	33 minutes ago
significance.txt	Add Significance Graph file	17 minutes ago

- **Hotfix for Division by Zero:**

Overview: created a hotfix branch, fixed the division by zero issue, and merged it into both main and develop.



## Conclusion:

This detailed breakdown in the appendix enhances the report by providing insights into each step of the GitFlow workflow, including specific steps and observations .