Software Engineering CSU22013
Assignment1
Calculator App

Aziz

We were given the task of developing a simple calculator in pairs. It was my first time working in pairs on a project with someone, I really enjoyed this experience as I found it helpful and exciting to share ideas with another group member. Daniel and I communicated very well and decided to split the work evenly. I worked on the initial design of the calculator in which I implemented the basic functionalities for a simple calculator and made it completely work then Daniel implemented Reverse Polish Notation as it is more efficient as he included division as well and then he proceeded to handle the divide by 0 error which then he fixed and then we decided to do the unit tests and the CI workflow together. Using GitHub made it easier for us as we were testing our functions using the CI workflow in every commit we made.

Daniel

As Aziz stated above, by the time I had access to the Github repository he'd written a fully functional calculator. I decided then to implement reverse polish notation, as it takes precedence into account automatically, without having to resort to block if/else statements. It also allows the easy implementation of parentheses. I then expanded the operations function to add operations outside of scope, and handled the zero division error that resulted from that. All of this was so that I could contribute to the initial codebase. We

then split the unit tests so that we each wrote the unit tests for a few functions, which Aziz then implemented into a GitHub workflow.

Conclusion

We were organised, as we were committing into branches, testing, and then merging them as we went. This structure made development so much easier, as it was a lot easier to know what needed to be done next, and to track down bugs.

Link of the repo:

https://github.com/azizosharke/calculatorSWE

Graph of the commit log :