Math Expressions Calculator

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Summary

There is a lot of tools for calculations and data processing (like wolframalpha.com and MS Excel) but they cannot allow you create custom new operations (like functions, brackets, etc.). That is why our program is better than them. This project aims at making an application, which calculates and simplifies expressions with custom data types. This application is different than the other tools, with an option to run-time add custom operations, variables, arrays, pairs of brackets and functions. It can be used for scientific and learning purposes.

Introduction

We have implemented calculations of expressions with an option to run-time add operations, variables, pairs of brackets, functions and find derivative functions.

Functions of application

Function	Description	Example
No/End	Each of the execution	End
I want more!	Adds new functions	
()	Gives you a derivative function	(a+b)'
calc	Calculates the expression	calc (a+b)*c
set	Set value of variable	set d (a+b)*c

Conclusion

This project can help in work with big data, database, because it can make the works more human readable. This is useful of scientists and young students, because it can help them to check your answers of task and can help them with hint for better solution.

In the future this project will have arrays, operation for integral and will modified to can be used like open-source library.