MXDC Calculator User Manual

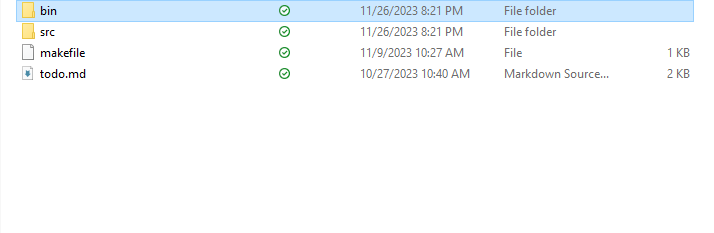
Introduction

This software includes an arithmetic expression calculator which allows the user to calculate expressions over the command line. To download the software the user should:

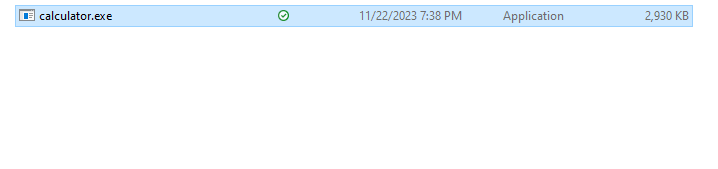
1. clone the repository.



1. Open a command line and locate the repository’s directory.
2. Open the calculator/bin director using either file explorer or command line



1. run the calculator.exe file by typing ./calculator.exe or by double clicking the executable using file explorer



1. You should now be able to input expressions into the command line

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Getting Started

The user can input almost any arithmetic expression they want. However, functions like sin or cos are not available, neither are variables.

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Advanced Features

There are no custom functions or variables for this calculator.

Troubleshooting

If running the calculator.exe does not work in the file explorer by double clicking, try to run it in the command line as directed in the getting started section.

If the user would like to calculate another expression, simply type ‘y’ and press enter.

Glossary of Terms

Clone: to use the git clone command

Repository: Another git term. The repository from the github page

PEMDAS: Order of operations

Examples

A good starting point is a basic addition calculation

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Exponents can be represented by either \*\* or ^.

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Expressions follow PEMDAS rules.

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Whitespace is ignored for user Input

FAQ

Are functions a feature?

* No, functions are not a feature since they are not in the scope of the project deliverables

Are variables a feature?

* No, algebra is not within the scope of the project deliverables

Does whitespace matter for user input?

* No, the tokenizer will ignore whitespace

Can I use x for multiplication, or ÷ for division?

* No, the user must use correct ascii values for operators. However, exponents can be used by either inputting \*\* or ^