SmartCalc v1.0

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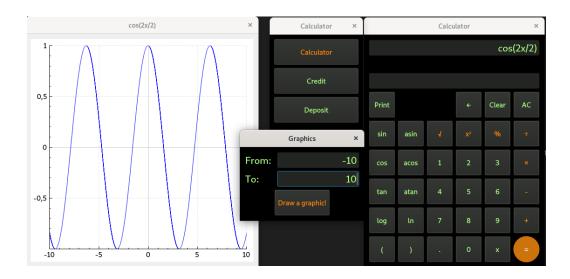
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Abstract

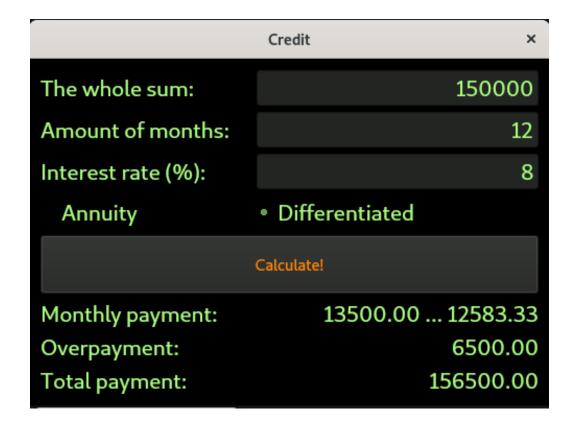
This is a program with a Qt-based interface which contains a regular calculator, a credit calculator and a deposit one.

The regular calculator allows you to calculate arbitrary bracketed arithmetic expressions in infix notation, including the expressions with an x variable, which will be substituted with an additionally entered number.

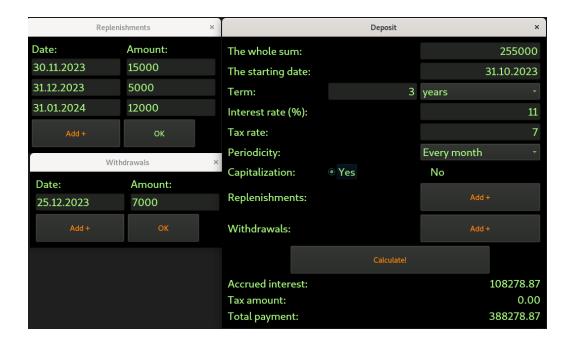
It can also plot a graphic of a specific function. To do that you should enter the function in the calculator and press the "Print" button.



The credit calculator shows you monthly payment, overpayment on the credit and total payment.



The deposit calculator counts accrued interest, tax amount and the deposit amount by the end of the term.



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1 Installation

To install and run this program use the *install* target of the Makefile:

make install

To uninstall use the *uninstall* target:

make uninstall

2 Making an archive

It is possible to archive the program using the dist target of the Makefile:

make dist

3 Running tests

To run style tests use the *style_check* target:

make style_check

To run functional tests use the *test* target:

make test

To check the test coverage use the $gcov_report$ target. It generates an html file containing all the relevant data.

make gcov_report

To check for the memory leaks use the *leaks* target:

make leaks

4 Cleaning

To clean the directory from all generated files use the *clean* target of the Makefile:

make clean