User manual
dumdumCalculator

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Use case

Calculator is used for basic mathematical function like addition, subtraction, multiplication, division, root, power, modulo and factorial.

License

This app is provided with license [GPLv3](#).

Installation

Prerequisites

All libraries **should be installed automatically**, BUT:

If you install the app, executed it, but you cannot see something try this: „**libqt5gui5**" library has to be installed on the systém, so try command: „**sudo apt-get install libqt5gui5**", but it requires **root** access.

Installation process

Execute dumdumCalc.deb file to open Ubuntu Software Manager. Click „Install" to install said software.

Launch

1. You can launch the application throught main menu
2. Anywhere with command: „**calculator**".

Image 1 Icon in main menu

Uninstallation

You can uninstall program through Ubuntu Software Manager, with entry for dumdumCalc and clicking „**Unintall**" button.

Show "HELP"

Program control
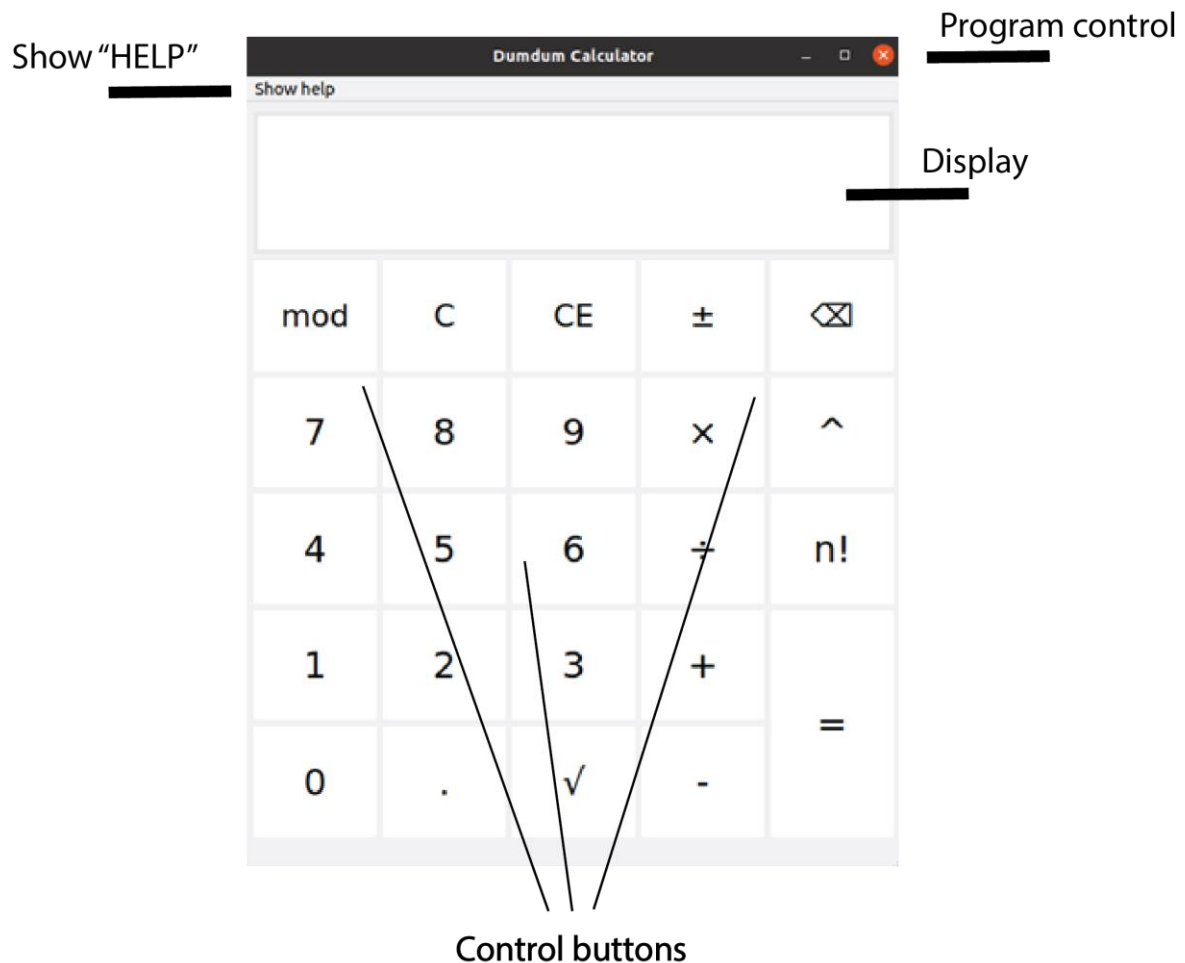
Display

Control buttons

Image 2 Graphic User Interface description

Entering numbers

To enter a number into the calculator, left-click the digit buttons on screen or use your computer keyboard. You can also enter decimal point by clicking to button or to "**.**" on your keyboard. If you want to calculate with negative numbers the best way is to write positive equivalent and than change sign by button in window or **S** key. To insert numbers you can also used well-known key sequences **Ctrl+C** an **Ctrl+V**.

Using operations

After you enter a number, you can choose a mathematical operation by clicking the operation symbol, or by typing it on the keyboard. After entering the operation, you can enter second number (**if you using ! function - there is of course only one operand**). To display the result of chosen operation, please press the **=**. **By clicking = again** you perform last operation again with result of last operation.

Special hotkeys

Program uses these special hotkeys:

Key	Action	Key	Action
0..9	*writes 0..9*	%	*uses mod*
-	*uses - operation*	*	*uses multiplication*
+	*uses + operation*	Enter	*shows the result*
/	*uses / operation*	!	*uses factorial operation*
.	*writes dec. point*	<--	*del last inserted number (backspace)*
,	*writes dec. point*	F1	*shows help*
S	*changes sign*	Esc	*End the calculator*
C	*cleares display*		
P	*uses power*		
R	*use root*		

Format

12 valid numbers (it doesnt depend where - whether before or after decimal point, zero before dec. point is not valid number) of results are showed in std. number format (e. g. 12346578912), than numbers are showed in exponential form (e.g. 1.12345678912e+12)

Precision

Be careful, if your numbers are too long (more than **12 valid numbers**), the results can lost their precision in least significant ciphers and they will be rounded. So, please, take it into your consideration, when you make highly accurate computations.

Help

If you want to show help during your computations, please, click on „**Show help**" or press the **F1** button. There are most common problems, you can met:

?! I see letters on display !!!

There are also special situations that you can meet during the computation:

Exponential form (e)

If there is only one "e", you are showed probably exponential form of number. Its not bug, it's just a scientific notation. More about scientific notation [here](#).

Errors

We are sorry but if the letters are red, errors occured. There are some reasons of most common errors:

Division By 0!

Basically, you cant divide by 0

Modulo By 0!

You cant do modulo with 0 as a second operand

Only Integers!

The operation you chose can compute only with whole numbers (in this calculator)

Only Positive Numbers!

You can pass only positive numbers to operation you chose

Undefined expresion!

The expression you passed in doesn't have any solution.

If you see the error, just write new numbers and errors should be gone...

Infinity

We are sorry, your numbers are too high (or low) too show them. But we can tell you if it is positive or negative high number! If you see this, just write new numbers...

What operation XY does?

If you don't know, what some operations does with operands, see: https://en.wikipedia.org/wiki/Arithmetic.

I installed app, executed it, but i can't see anything?!

There are may be problems with libraries that are necessary to run calclator. For more information see Installation.

Contact

If there are bugs that are not mentioned in documentation or you want to give feedback to our team, you can contact us by email:

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