

User documentation for the calculator

1 Installation

Windows:

The application comes with prepared `Calculator.exe` built file, which can be normally used by clicking and opening it as any other `Calculator.exe` file. No installation or any further steps needed. To **uninstall** the application just simply delete the file `Calculator.exe`.

Linux/MacOS:

Steps to install an executable calculator file:

1. Move to `src/directory`
2. Open terminal in current directory
3. Write `make build` in terminal
4. Then head to the `build/ directory`
5. In terminal, enter `chmod +x Calculator`
6. Then, execute the file either by clicking on it or by typing `./Calculator`

You can move both `Calculator.exe` (Windows) and `Calculator` (Linux/MacOS) to any desirable directory and use it.

To **uninstall** this application delete the file **Calculator**.

2 Usage

Click on the buttons in the application or enter from keyboard to create math expressions.

The result will be shown after clicking on `=`.

Trigonometric functions and factorial will be evaluated as soon as the corresponding button is clicked. It is important to balance all the parentheses.

2.1 Buttons

- `"C"` - clears everything
- `"<-"` - deletes the last symbol
- `"?"` - help window
- `"!"` - factorial
- `"^"` - power of the number
- `"√"` - root
- `"log"` - logarithm
- `"sin/cos/tan/ctg"` - trigonometric functions
- `"+ - × ÷"` - basic math functions
- `"π / e"` - constants

2.2 Single functions usage

1. To find the root of the number firstly enter an exponent, click on $\sqrt{}$ button, enter the expression and at the end close the parentheses.
2. To evaluate the logarithm firstly enter the base, click on "log" button, enter the expression and at the end close the parentheses.
3. To use trigonometric functions enter the argument firstly and then click on the corresponding trigonometric buttons.