

# BRNO UNIVERSITY OF TECHNOLOGY

## Faculty of Information Technology



## User manual

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# 1 Introduction

Welcome to the Calculator User Guide. This user guide provides documentation for people who will use the Calculator on a day-to-day basis. It acquaints users with installation as well as with using the application for mathematical calculations.

This application was created as a group school project at Faculty of Information Technology, BUT.

## 2 Installation

### 2.1 Install

Firstly you have to download our program. At the start of the download Windows may show you warning and suggest that our program is dangerous. This is happening because our program doesn't have our digital signature yet. Don't worry it is safe, so please select the option keep the file. After that, start the installer with tap or double tap. This message may show up, but don't worry, just click "More info" and click "run anyway". We assure you our app is 100 % safe.



Figure 1: Error message

After that a small window will show up, where you can choose if you want to install our app just for the current user or for all users. Choose whichever you want. After that this bigger window will show, that includes the licence used for our app. In order to install our app you should read the licence and agree with it's conditions by clicking on "I accept the agreement". After that click on next.

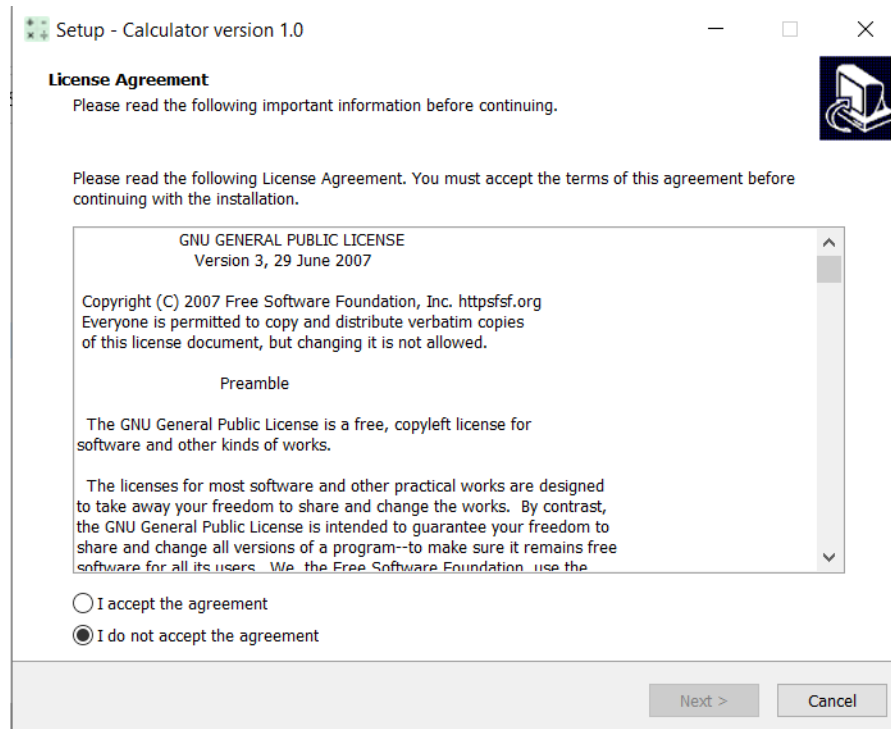


Figure 2: Installation window 1

In the next window choose where you want to install our app. You can click on a button browse and find the wanted destination or type your destination in the box. Than click on next.

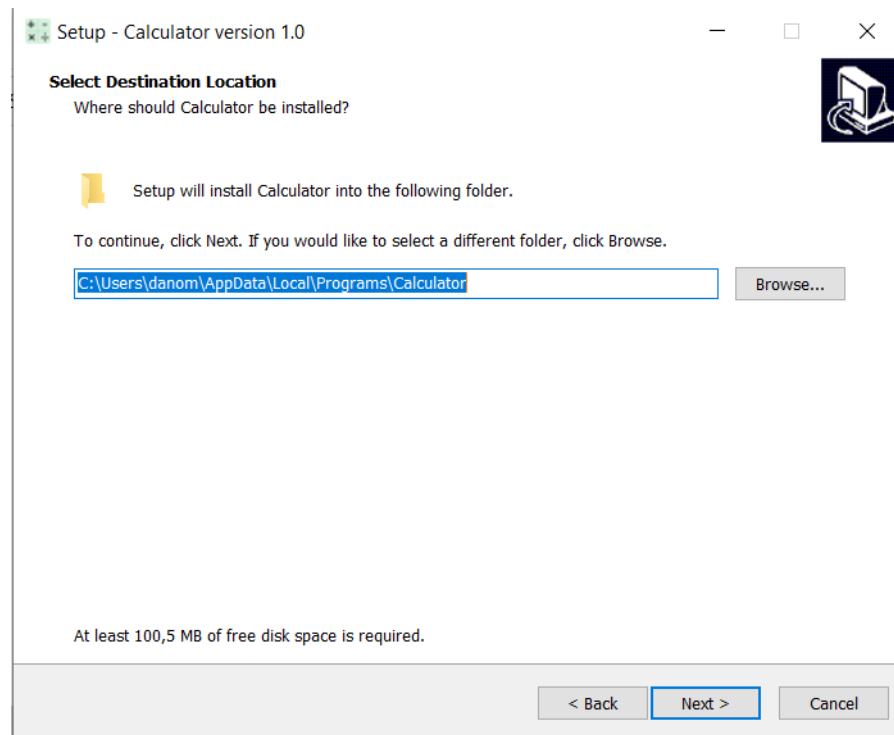


Figure 3: Installation window 2

In the next window click on "Create a desktop shortcut" if you want to run our app from you desktop. Click on next. The next window will show you the information about the installation. If you find anything wrong, go back using the "Back" button and correct it. If everything is correct click on install and wait until the installation finishes. After that you will get your last window, that informs you, that the installation was successful. You can keep the box checked if you want to start the app, if not click on the box. Click on the finish button and the installation is complete.

## 2.2 Launch

If you checked the box "Create a desktop shortcut", you can go to your desktop and double click on the icon to start the application called "Calculator".

If you didn't check the box, you have to go to the folder, where you installed our app and double click on the "Calculator.exe" file.

## 2.3 Uninstall

Go to the folder, where you installed our application and double click on the "unins000.exe" file to uninstall our app. You will get a small window, where you have to confirm the uninstallation. Click on "Yes" to continue. After that the app will uninstall, wait until it finishes. When it's finished a small window will pop up informing you, that the uninstallation was successful. Click on "Ok" to confirm it. With that the uninstallation is complete.

### 3 Calculator application control

When the application is launched, the standard calculator mode is displayed. It is useful for basic math operations like adding, subtracting, multiplying and dividing, as well as for exponentiation, finding  $n$  roots, inversion, negation, factorial and modulo calculations.

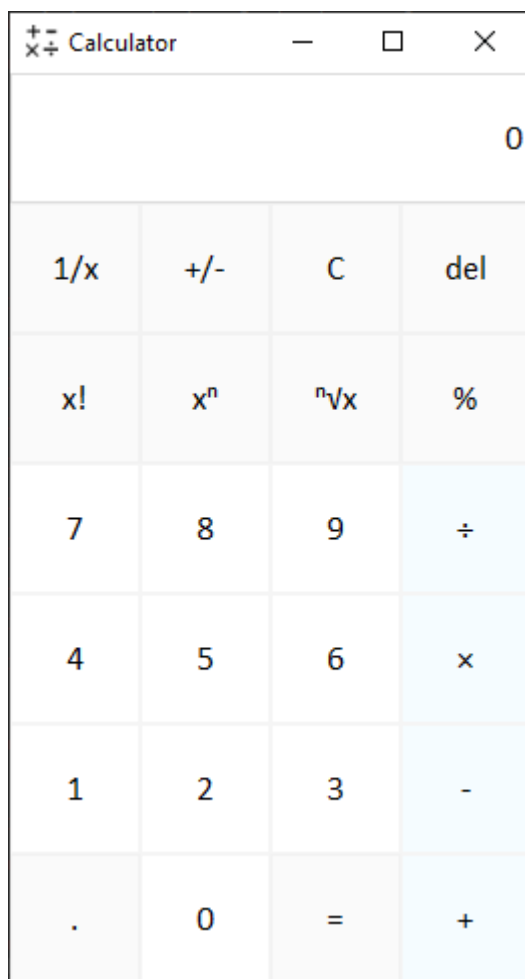


Figure 4: Calculator application

#### 3.1 Entering numbers

Use the number panel for entering numbers. If you need to delete the last character you wrote, press del (delete), or you can use the C button (clear) to clear all input to the calculator.



## 3.2 Mathematical operations

We distinguish two types of operations: unary (violet), which is an operation with a single operand, and binary (green), which needs two operands to successfully complete the operation.

<div> <div> <div> <div>+</div> <div>=</div> </div> <div> <div>×</div> <div>÷</div> </div> </div> <div>Calculator</div> <div> <div>—</div> <div>□</div> <div>×</div> </div> </div>			
0			
1/x	+/-	C	del
x!	$x^n$	$\sqrt[n]{x}$	%
7	8	9	÷
4	5	6	×
1	2	3	-
.	0	=	+

Figure 5: Distinguish between unary (violet) and binary (green) operations

For unary operations, enter the number, then press the button of the unary operation you need to calculate. The result is displayed on the result label.

For binary operations, enter the number, then press the button of the binary operation you need to calculate. The first operand disappears, then you can enter the second number. The result is displayed on the result label after pressing equals button.