

# User guide

## IVS project: Calculator

### Contents

<b>1</b>	<b>Introduction</b>	<b>2</b>
1.1	Purpose . . . . .	2
<b>2</b>	<b>Instalation</b>	<b>2</b>
2.1	System requirements . . . . .	2
2.2	Installation . . . . .	2
2.3	Uninstallation . . . . .	2
<b>3</b>	<b>How to use calculator</b>	<b>2</b>
3.1	Basic number operations . . . . .	3
3.2	Basic mathematical operations . . . . .	3
3.3	Advanced mathematical operations . . . . .	3

# 1 Introduction

## 1.1 Purpose

This take on classical calculator was made as project in IVS course. Program should be used only for basic mathematical operations.

## 2 Instalation

### 2.1 System requirements

Calculator runs only on **Debian** based linux distribution. Doesn't require any other special components or bigger amount of computer resources.

### 2.2 Installation

In both options, you can be asked for password. If so, installation can't be done successfully without it.

#### Option 1:

- Download installation package with .deb ending.
- Double click on downloaded package.
- Click on install button and wait until *uninstall* button appear.
- Calculator icon will appear in list of installed applications.

#### Option 2:

- Download installation package with .deb ending.
- Open terminal and type in: `"sudo apt install ./BC_Calc.deb"`.
- Wait until installing ends.
- Type in terminal: `"BC_calc"`

If everything went successfully, your program should open in a new window. If you want to close calculator, click on cross button at the right top corner.

### 2.3 Uninstallation

- Open any package manager. For example *Ubuntu software* on Ubuntu distro.
- Find package with **BC\_Calc** name and click on it.
- Click on the *uninstall* button. If you are asked for password, it is required for this type of action and uninstalation cannot be succesfull without it.

## 3 How to use calculator

Enter number with mouse or calculator buttons, select required operation and if needed enter second number. Then press button with = sign and your answer appears in type box. If you need any help, you can click on *help* button for more informations.

### 3.1 Basic number operations

To use number with floating point, first type in the intended number before point and press button with dot symbol. Then type in the rest of the number. To use negative number, type it in and then click on +/- button. You can even switch from negative to positive number with same button. To clear type box press C button.

### 3.2 Basic mathematical operations

Every basic operation require two numbers. Our calculator supports:

- + for addition.
- - for subtraction.
- \* for multiplication.
- / for division.

### 3.3 Advanced mathematical operations

Operations requiring two numbers.

- % for the division remainder.
- $\sqrt[y]{x}$  for root of **y** and argument **x**.

Operations requiring only one number.

- $x^y$  for **x** on power of **y**.
- $|x|$  for absolute value of number **x**.
- **n!** for factorial of **n**