Programming II Calculator assignment How-To Document

NAME

ID

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a. Calculator Overview



b. Assumptions

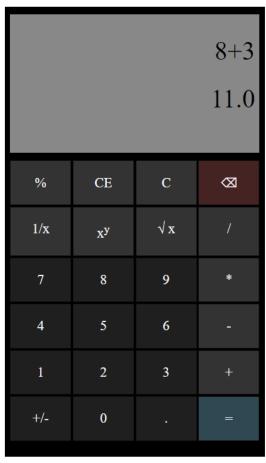
This calculator uses the keypad of the windows calculator but with the functionality of the android calculator.

The user is not allowed to enter multiple floating points in a single operand or use two successive operators (see "using negative operands" in section C).

c. How to use

Addition, Subtraction, Division, Multiplication:

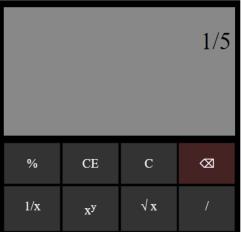
Using corresponding buttons normally



• Reciprocal:

We enter the number we want to use its reciprocal, then we press the button 1/x





• Power and Square root:

Pressing Power prints a ^ symbol that is translated in the back end to indicate that exponential operation.
Pressing square root prints ^0.5 on the screen which is enough to calculate the square root of the needed number.

• Using negative operands:

In this program, we prevent the user from entering two successive operands thus entering any operand followed by – button is prohibited. However, user can use the +/- button to add the – sign to his expression.

			8^2 64.0
%	CE	С	☒
1/x	x ^y	√x	1
7	8	9	*
4	5	6	
1	2	3	+
+/-	0		=

		-6	5+8*2
%	CE	С	₪
1/x	xy	√x	/
7	8	9	*
4	5	6	
1	2	3	+
+/-	0		=

• Clearing and deleting:

Pressing the arrow will erase one symbol from the expression. Pressing the C or CE will erase the whole display.



• Percentage

% symbol in this program is considered as normal percentage symbol that considers the value given is 1/100 of the written value as follows.

