**Windows10 Calculator (A calculator made with Java)**

This project is a calculator that simulates the programming mode of the Windows10 calculator.

This project is a group project, it was coded by Fangjia Li, Hongyun Du and Javier Andres Gomez.

This calculator is built with Java and Swing.

The calculator includes:

1. basic operations: addition, subtraction, multiplication, division, mod.
2. Conversions between hex, decimal, oct, and binary.
3. WORD, QWORD, DWORD, and BYTE
4. Hex numbers: A, B, C, D, E, F
5. Parenthesis and Plus-minus sign

How to run:

To run the calculator, please import the whole file into your IDE.

Du, Hongyun wrote: the doubleStack class, the converting class and GUI.

Gomez, Javier Andres wrote: GUI, the converting class and integrated Du’s two classes into the Calc class.

Li, Fangjia wrote: GUI and integrated Du’s two classes into the Calc class.

Because we did a lot of modify, such as Gomez was using Integer.toBinaryString(i) to do the conversion, but for future convenience Du wrote the converting class to do the conversion. furthermore, Gomez wrote the Original calculator windows, which contains all buttons and all buttons were working properly but based on Gomez’s work Li modified the style of all these panels and buttons to make it looks much more like the Win 10 Calculator, and Du wrote the MymouseListener class to make its behavior looks much more like the Win 10 Calculator.

Also, because we were working together, one block might be written by three of us and there are thousand lines of code, it is really difficult to distinguish which one wrote which line. Thus, in this file we will not specifically point out which one wrote which line.

SAMPLE OUTPUT:

(((((((9+5)\*3)\*2

correct result: 84

Calc output: 84

1+2\*3+5%6+7/8-3

Correct result: 8

Calc output: 8

(((((((8))

Correct result:8

Calc output: 8

BC+DF/CE\*AF

Correct result in HEX: 16B

Calc output: 16B

1001011011010+1100100001010\*101+0000100101101101

Correct result int BIN: 1001100101111001

Calc output: 1001100101111001