QT CALCULATOR

In this project, we implemented a old school calculator with QT. We didn't use .ui to learn the qt better. All the code in this project are handwritten. We took help from our PS sessions.

We have 3 .cpp files and 2 .h files.

1)calcbutton.cpp

This is the code for the buttons in the calculator. CalcButton Is the class for the buttons. We have the button_clicked() function to call when a signal is given.

When the button is clicked, we call button_clicked() function. Our calculator shows numbers one by one. Operators are never shown. Back to back "=" operations don't mean anything, it is only one "=". For back to back "+" and "-" operations, we take the last operation.

Examples:

1)3 + 5 = 8:

In calculator's screen respectively:

1)3
2)5
3)8

2)3 + + + 5 == 8:

In calculator's screen respectively:

1)3
2)5
3)8

3)3 + - 5 = -2:

In calculator's screen respectively:

1)3
2)5
3)-2

4)3 - - 5 = -2:

In calculator's screen respectively:

1)3
2)5
3)-2

5)-3 + 5 = 2:

In calculator's screen respectively:

1)3
2)-3
3)5
4)2

Because we are thinking calculator starts with 0. So actually this operation is 0 – 3 + 5 = 2

6)-3 + 5 + 8 – 2 = 8

In calculator's screen respectively:

1)3
2)-3
3)5
4)2
5)8
6)A
7)2
8)8

2)myres.cpp

This class is for the result part of the layout and we hold some variables for calculating part.

3)main.cpp

Main of the program. We create here the application, widget, layout, objects etc. and we connect them to have the last result. We use Qobject::connect to connect button_clicked() function to buttons.