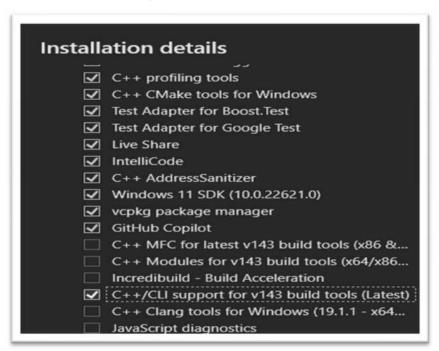
# Windows Form For GUI with VS community

- Installation
  - Open VS installer
  - Choose modify and select C++/CLI



• To learn design, watch this playlist.

\*\* C++ code with GUI code

Important to include in header file

#include <msclr/marshal\_cppstd.h> // to convert from textbox or any input (GUI) to string (C++)

#include <Windows.h> // like iostream but for GUI

- Data types and convert between them
  - String<sup>^</sup>

Before convert between data types must be creating object from "marshal\_context"

code :- msclr::interop::marshal\_context context;

# Convert String from textbox (GUI) to

## -string (C++)

```
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {
    string str = context.marshal_as<string>(textBox1->Text);
    MessageBox::Show(gcnew String(str.c_str()));
}
};
```

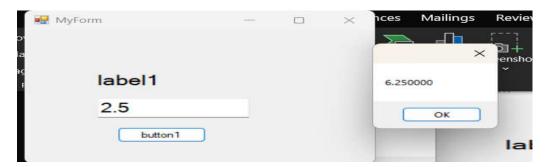
# Test code when clicking button



### -flaot

```
private: System::Void buttonl_Click(System::Object^ sender, System::EventArgs^ e) {
    string str = context.marshal_as<string>(textBox1->Text);
    float toFloat = stof(str);
    toFloat = toFloat * 2.5;
    str = to_string(toFloat);
    MessageBox::Show(gcnew String(str.c_str()));
}
```

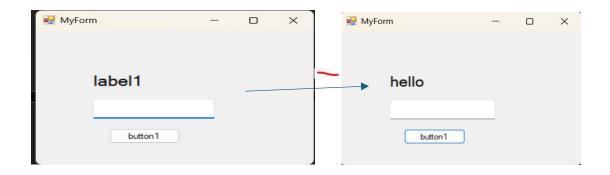
#### Test code:



Convert from C++ to GUI

```
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {
    string str = "hello";
    label1->Text = gcnew String(str.c_str());
}
```

#### Test:



```
private: System::Void button1_Click(System::Object^ sender, System::EventArgs^ e) {
   int temp = 550;
   label1->Text = "number "+gcnew INT(temp);
   /*
   or
   label1->Text = temp.ToString();
   */
}
```

#### Test:

