Siri Voice control

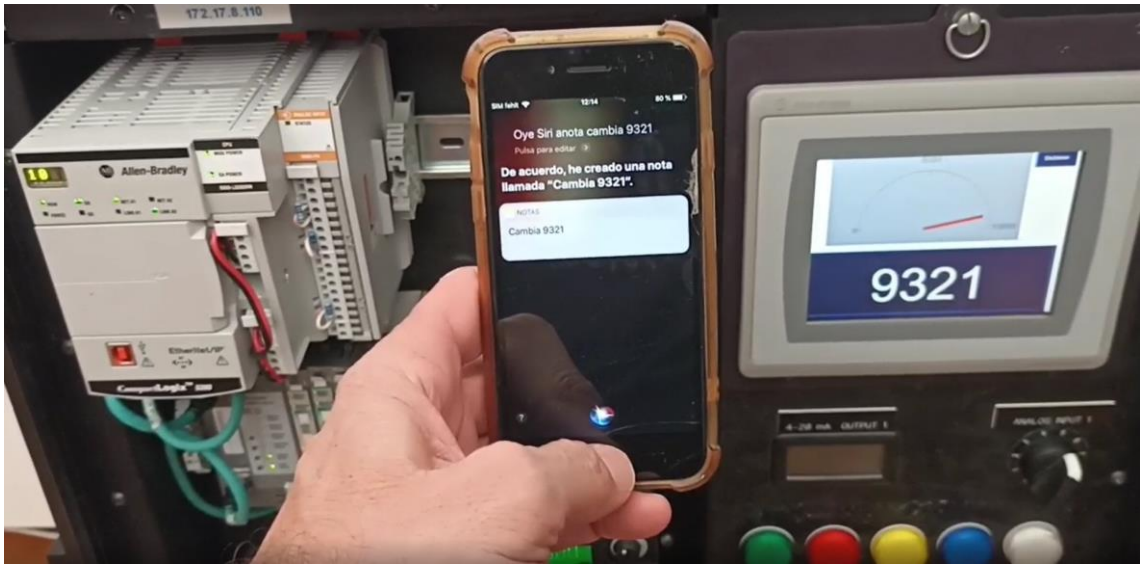
Contenido

Introduction

The libraries and the process used are explained here

https://medium.com/@thesanjeetc/want-to-control-something-with-siri-heres-how-bae98aceb586

This is the used setup



Gmail account new security from 2022

You have to grant Access to your Gmail account from les secure applications

https://www.youtube.com/watch?v=RpSQQIGTpTM

Now it Works

You can download the scripts from here

https://github.com/xavierflorensa/Siri-to-EtherNet-IP/tree/main

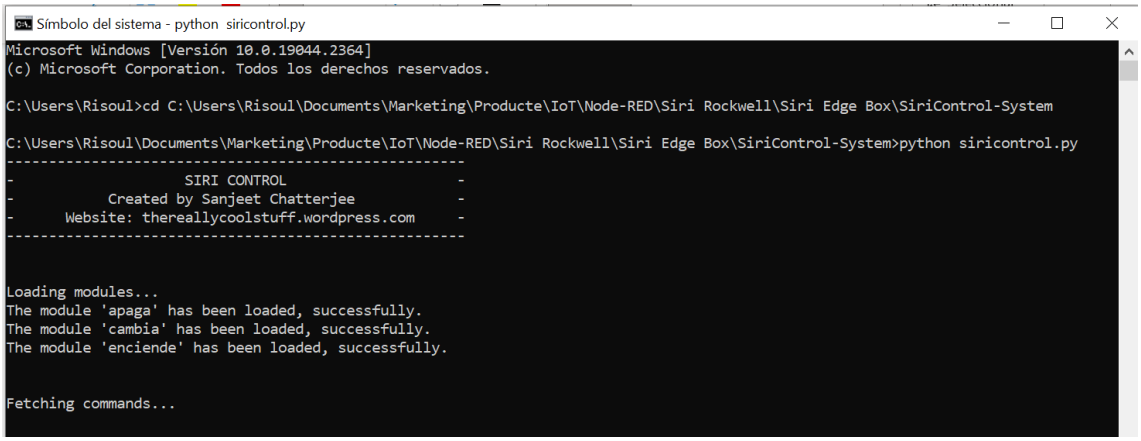
And personalize the modules for your own needs

Once you have the files on your PC go to the directory where the files are stored.

cd C:\Users\Risoul\Documents\Marketing\Producte\IoT\Node-RED\Siri Rockwell\Siri Edge Box\SiriControl-System

And execute

Python siricontrol.py



“cambia” is the topic and “5000” is the value

The Python script will recognize your voice telling:

“Oye Siri anota cambia 5000” (“Hey Siri note setup 5000”)

Then the Python script will execute a second script if the first Word is “cambia” doing this:

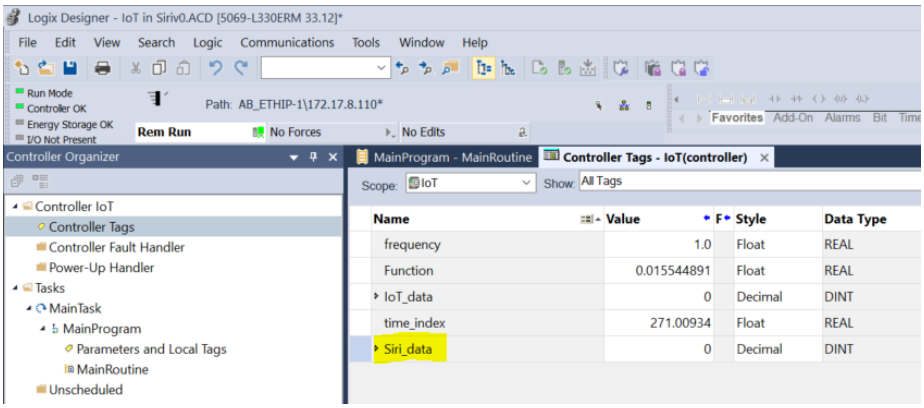
mosquitto_pub -t cambia -m 5000

So our computer is the mqtt broker. For instance mosquitto running as a start up service.

We will get this value with Node-RED and write it to the PLC.

Studio 5000 settings

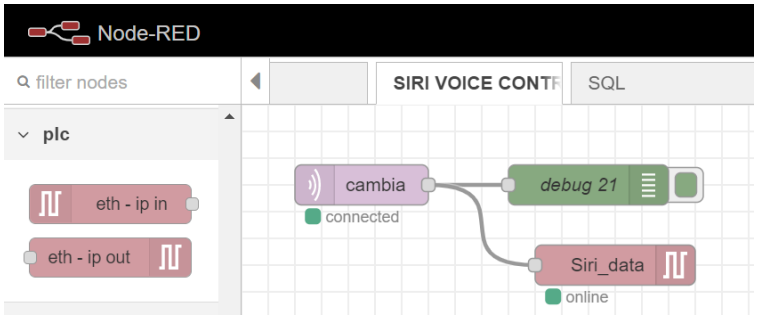
Let’s create a simple program to hold a global variable called for instance Siri_data, were we will get the voice given data

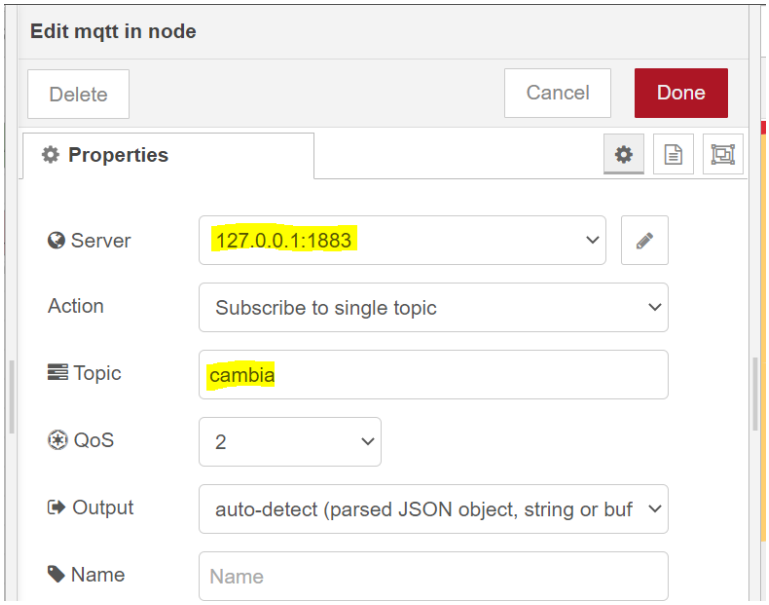


Now let’s go to Node-RED

Node-RED settings

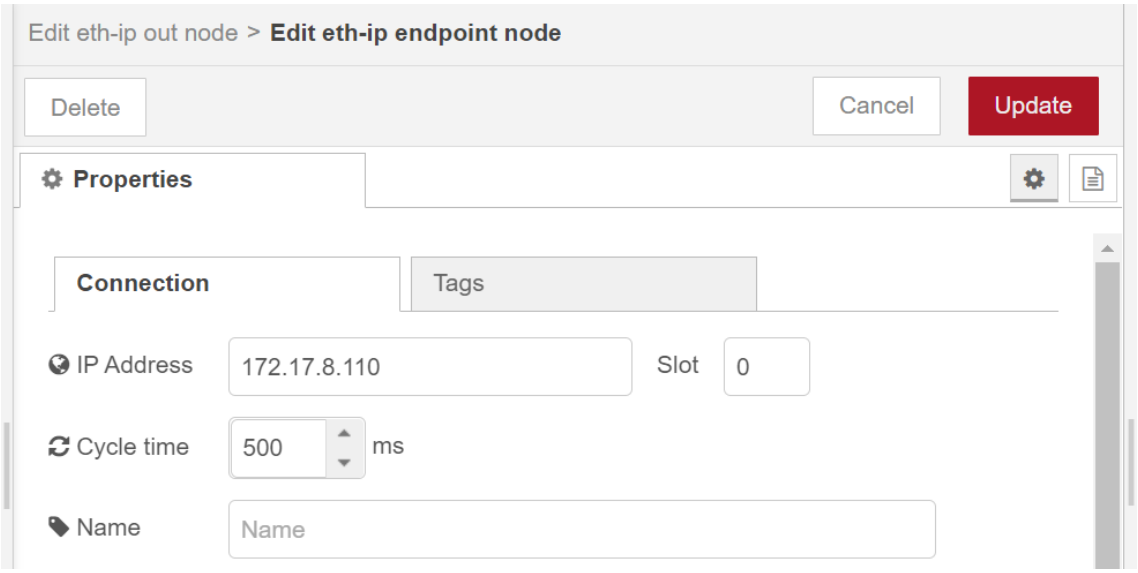
Let’s create the following Flow



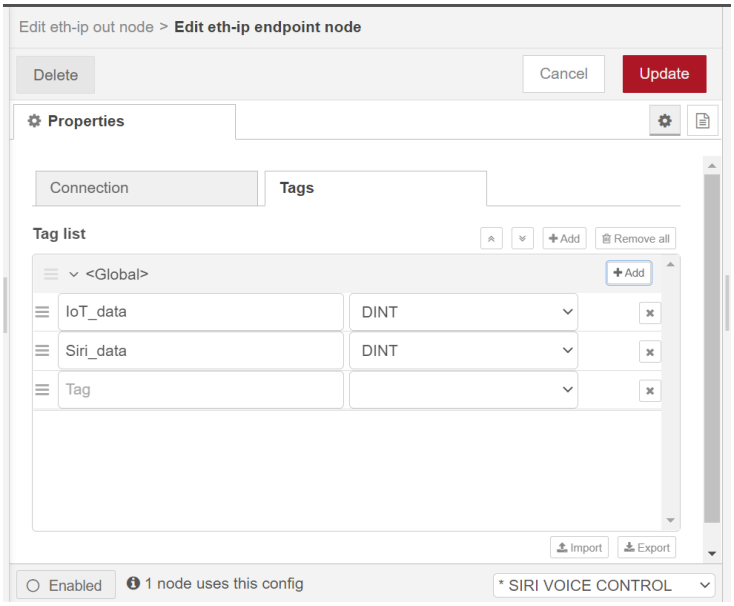


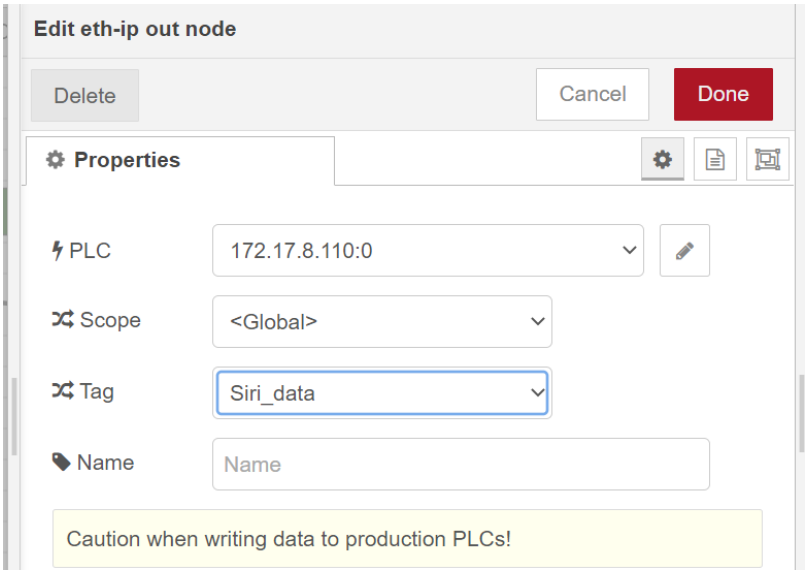
Let’s asume our PLC has IP address 172.17.8.110.

Our computer were Node-RED is running must be in same subnet for instance: 172.17.8.2



Let’s create the same variable that we have created on Studio5000





Testing the setup

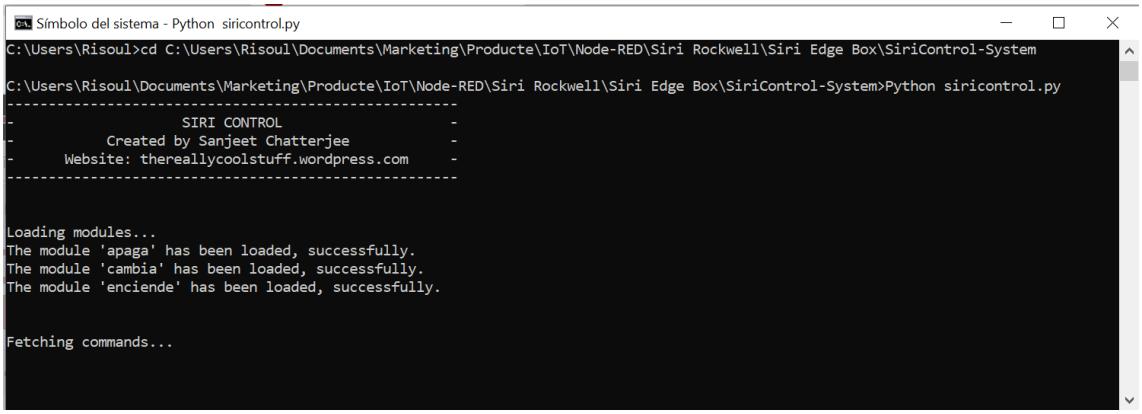
Now let’s test the script

You can find the code here:

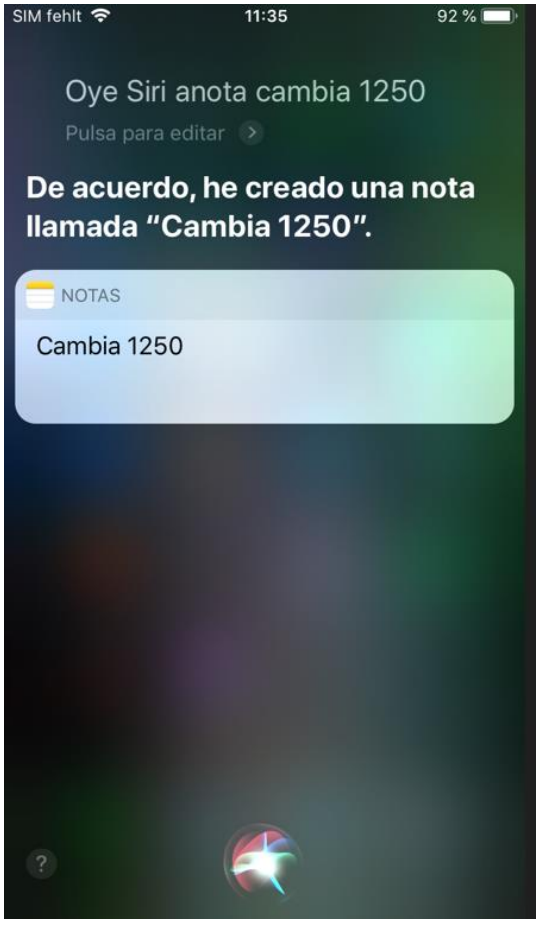
Open cmd and type

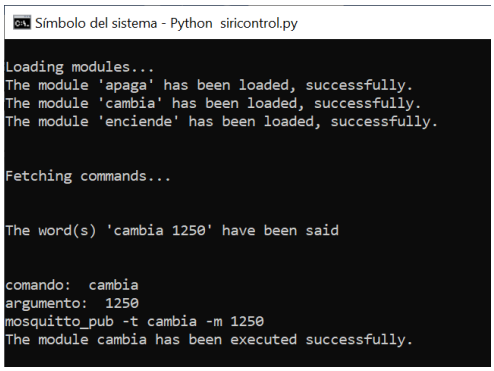
cd C:\Users\Risoul\Documents\Marketing\Producte\IoT\Node-RED\Siri Rockwell\Siri Edge Box\SiriControl-System

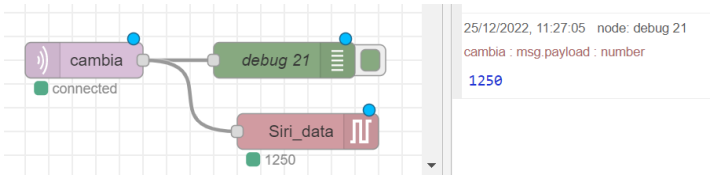
Python siricontrol.py



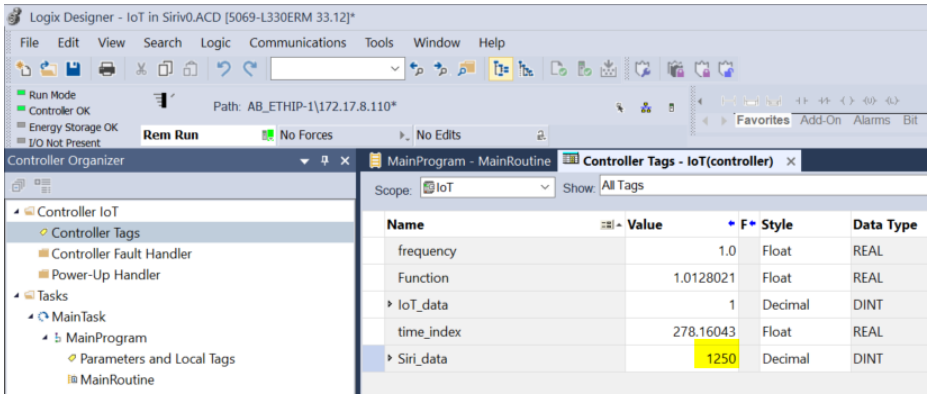
Let’s talk “Oye Siri anota cambia 1250”





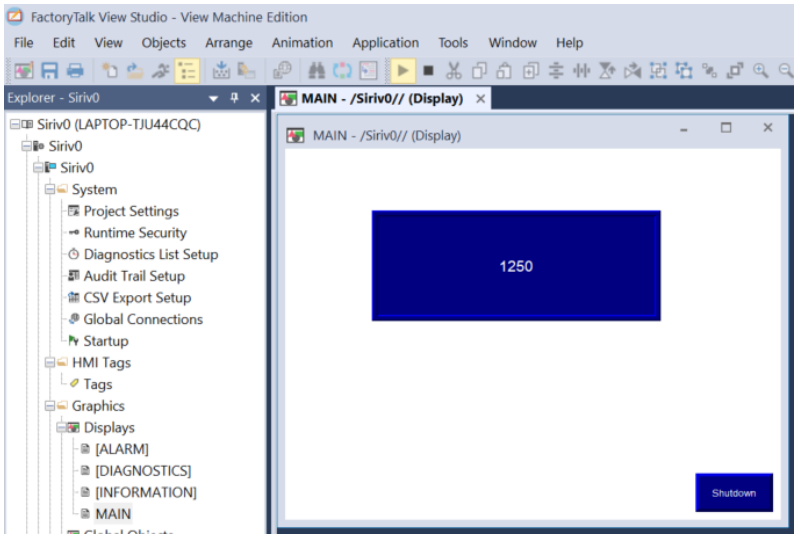


And on the PLC side



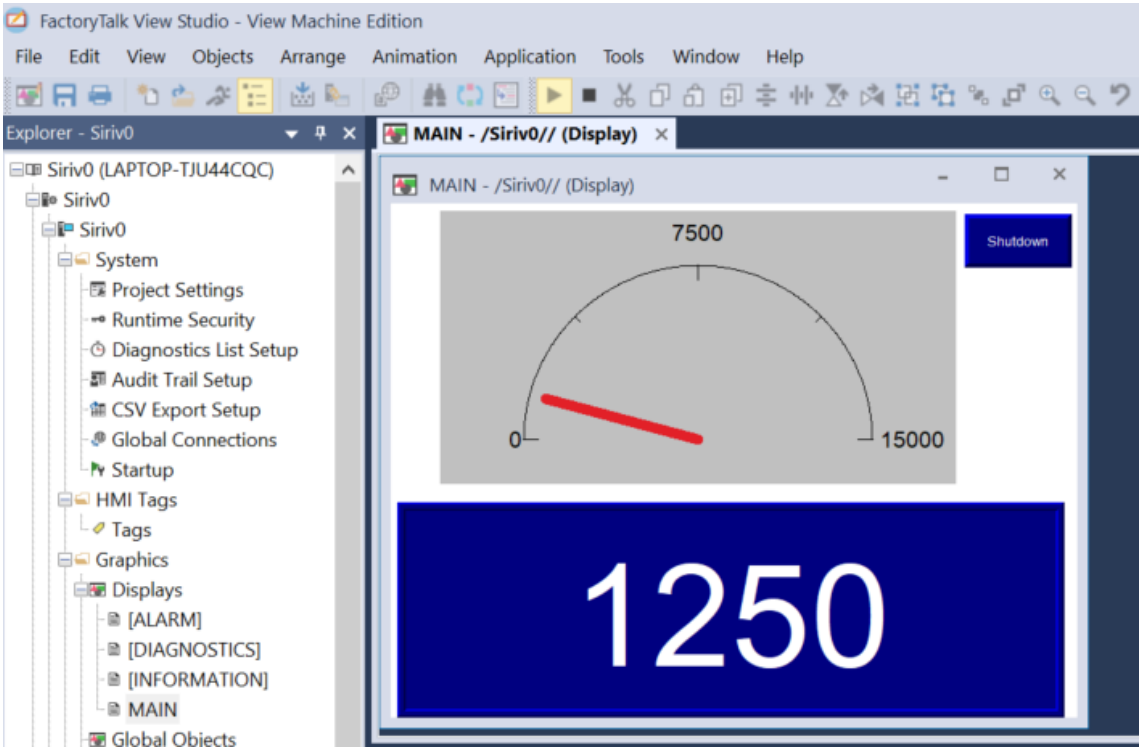
Now let’s create a Factory Talk View application to display the value on an HMI.

Let’s simulate it

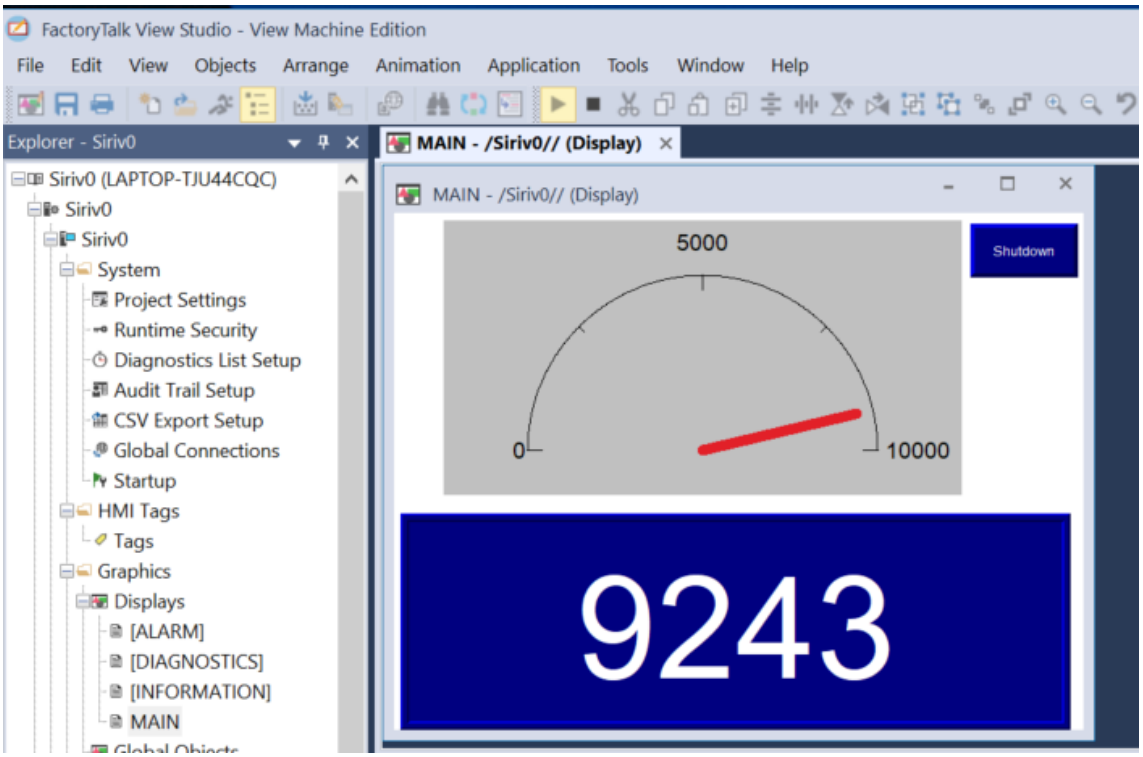


It Works,

Now let’s arrange a bigger number display and a Gauge



Let's test it



If you say a number bigger than 10000 then siri introduces an . (10.000) and the system fails

Pending to fix this.

You can see the results on this video:

https://youtu.be/5ybKLSQNO4A

This Works also with the loudspeaker HomePod.