

# Siemens S7-1200

CPU 1212C AC/DC/Relay

## How to use PLC Simulator

**In Siemens TIA you can  
practice PLC Logics without  
physical PLC !**



**Code and Compile**  
Learning Made Easy

[www.codeandcompile.com](http://www.codeandcompile.com)



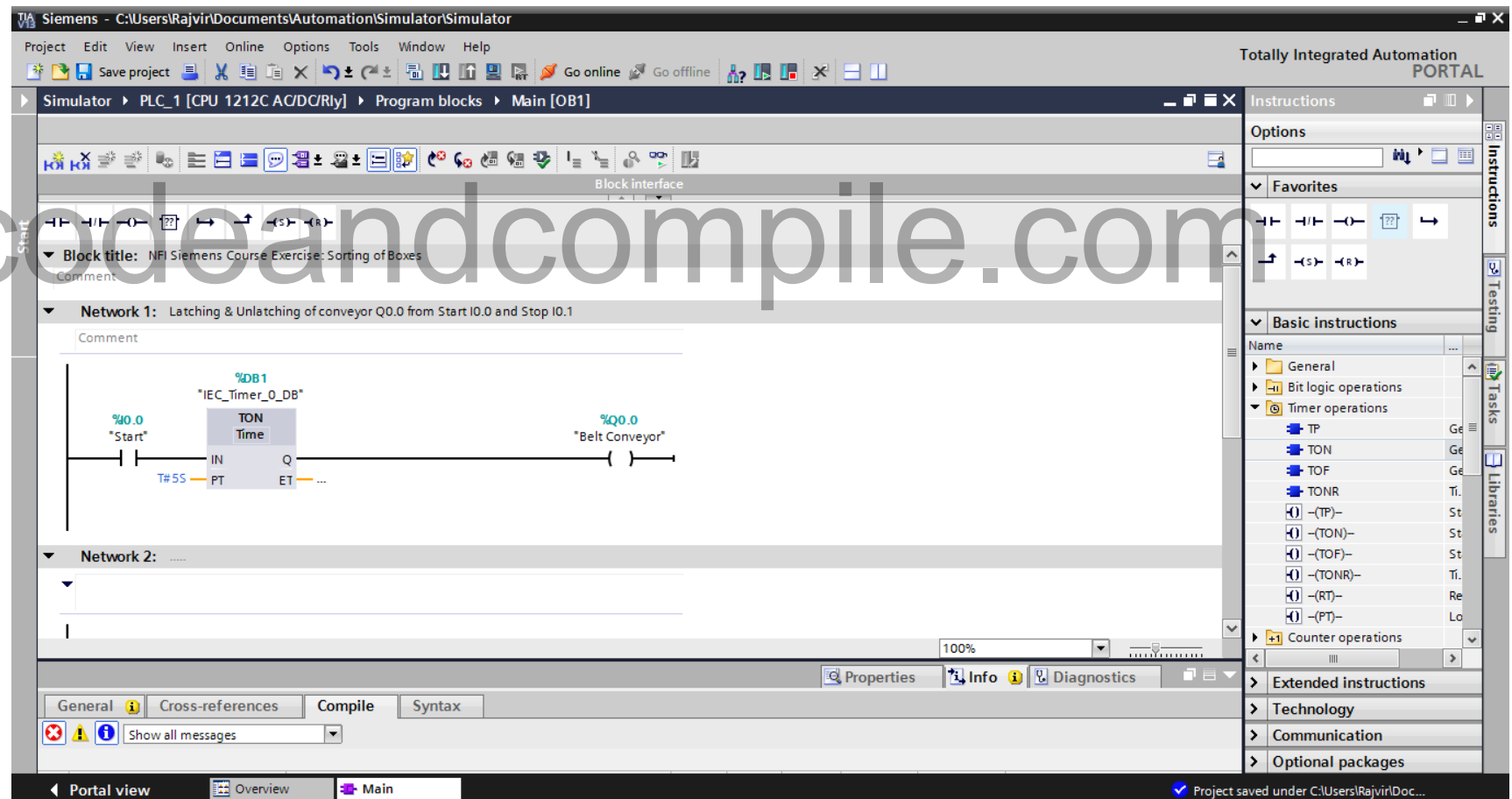
# Step 1- Open Siemens TIA

## Make a demo project in Siemens TIA

In the below example we have made a timing circuit to actuate the output with a delay of 5 seconds.



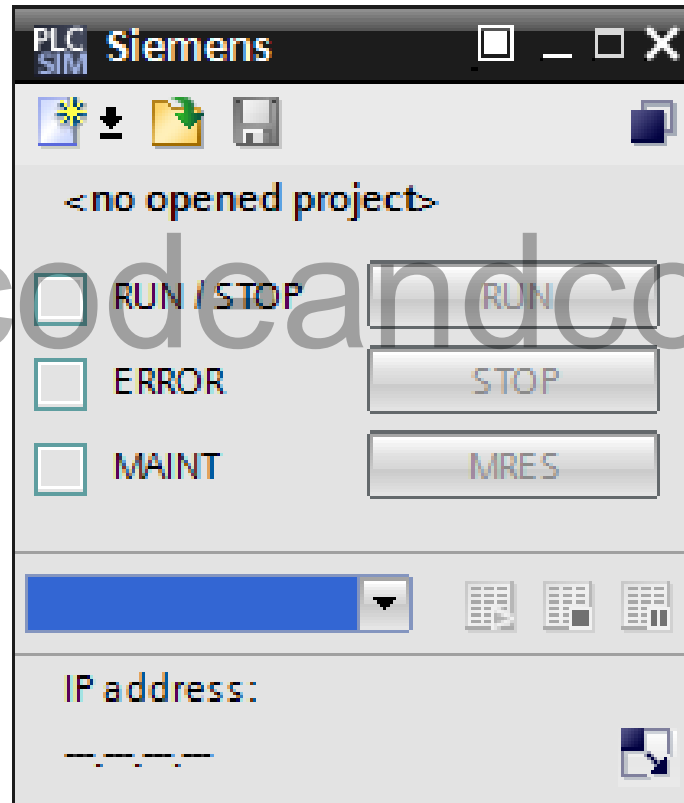
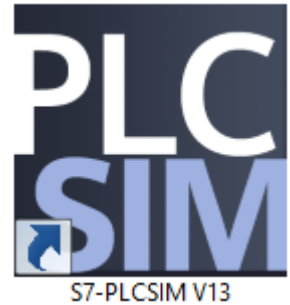
TIA Portal V13



## Step 2- Open Siemens PLCSIM

### Install and open Siemens PLCSIM

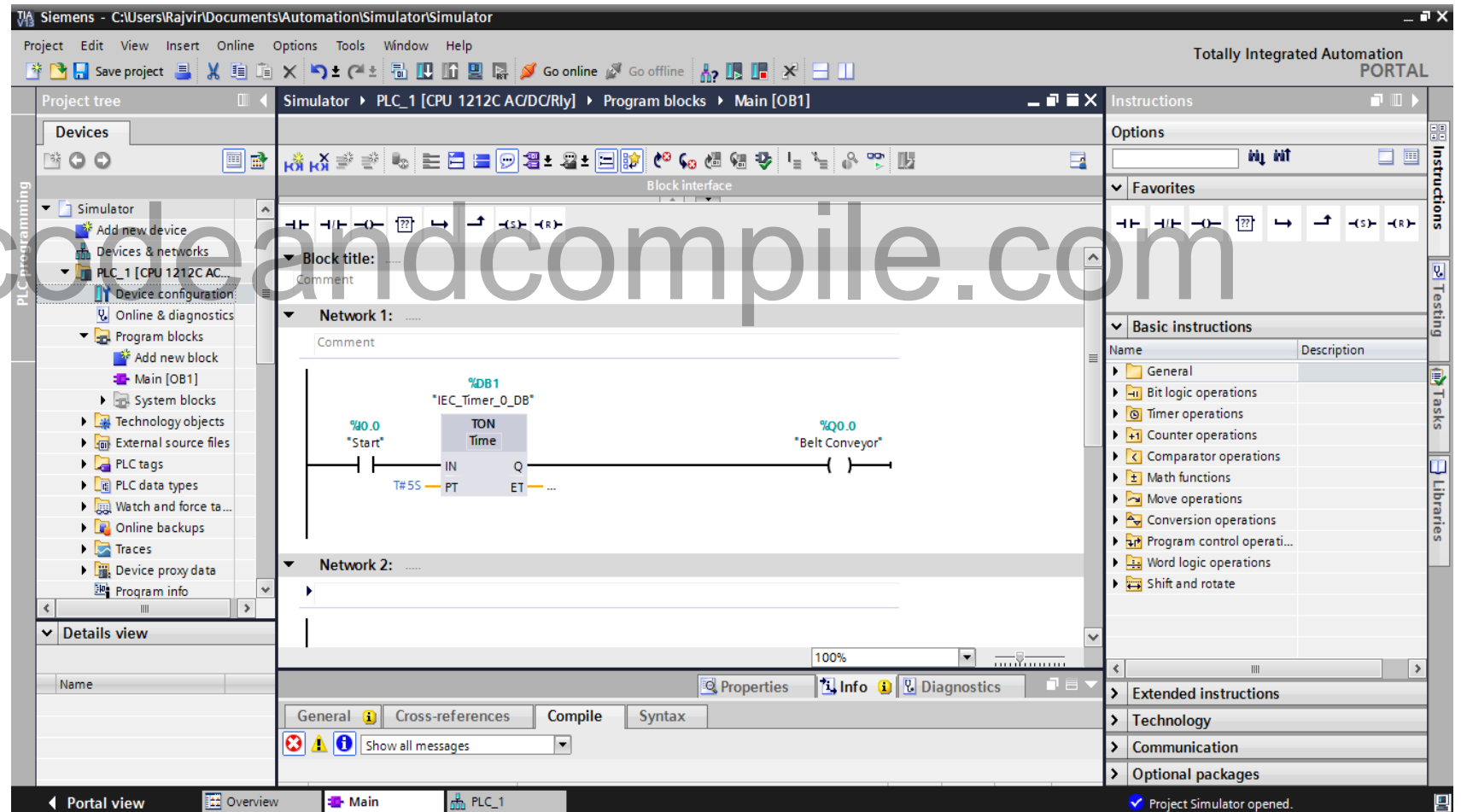
*This software comes along with Siemens Software Pack or you can download from the Siemens website*



www.codeandcompile.com

## Step 3- Make a sample Logic

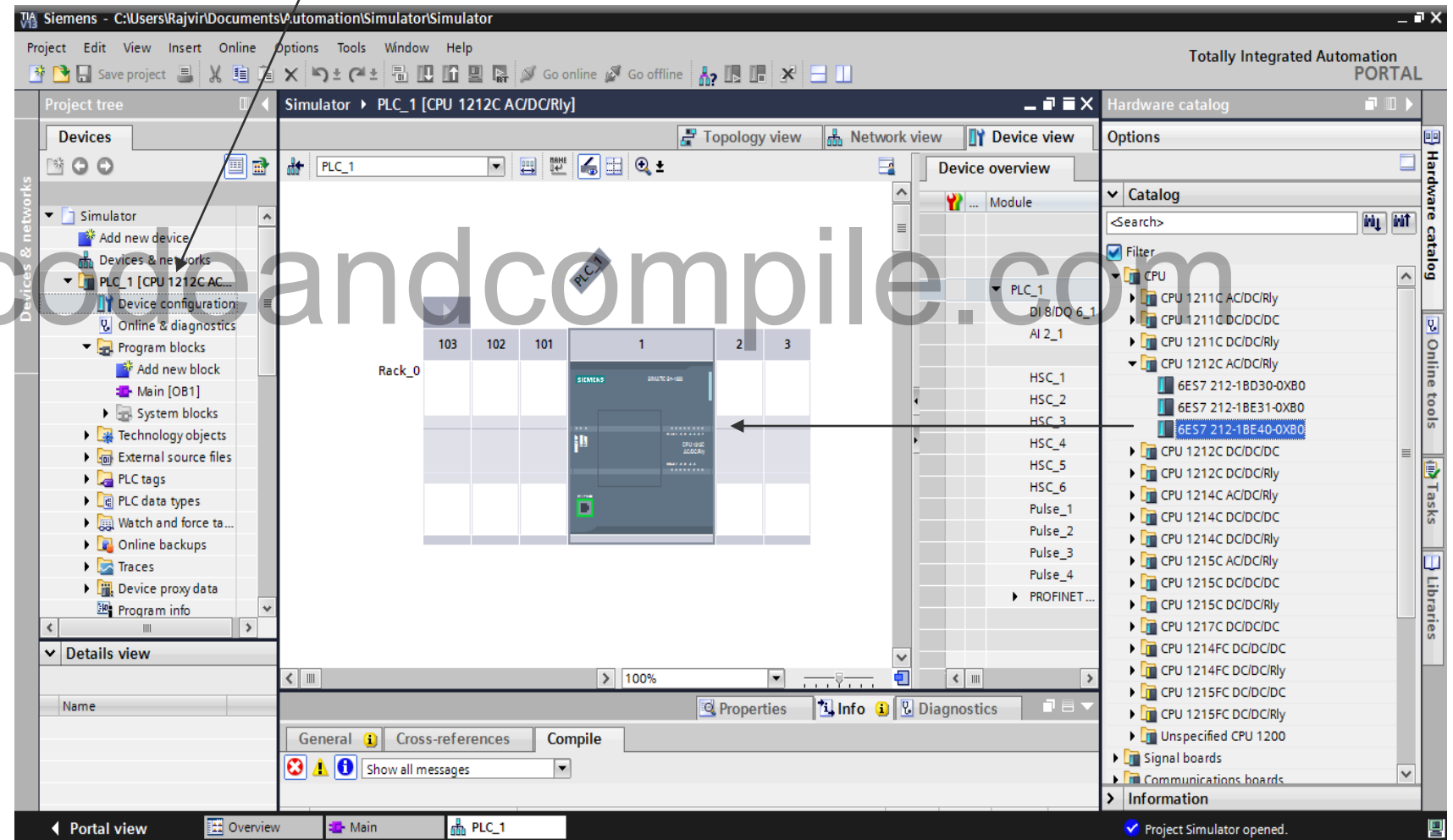
**Write your ladder Logic – Compile it** to make sure it's error free!





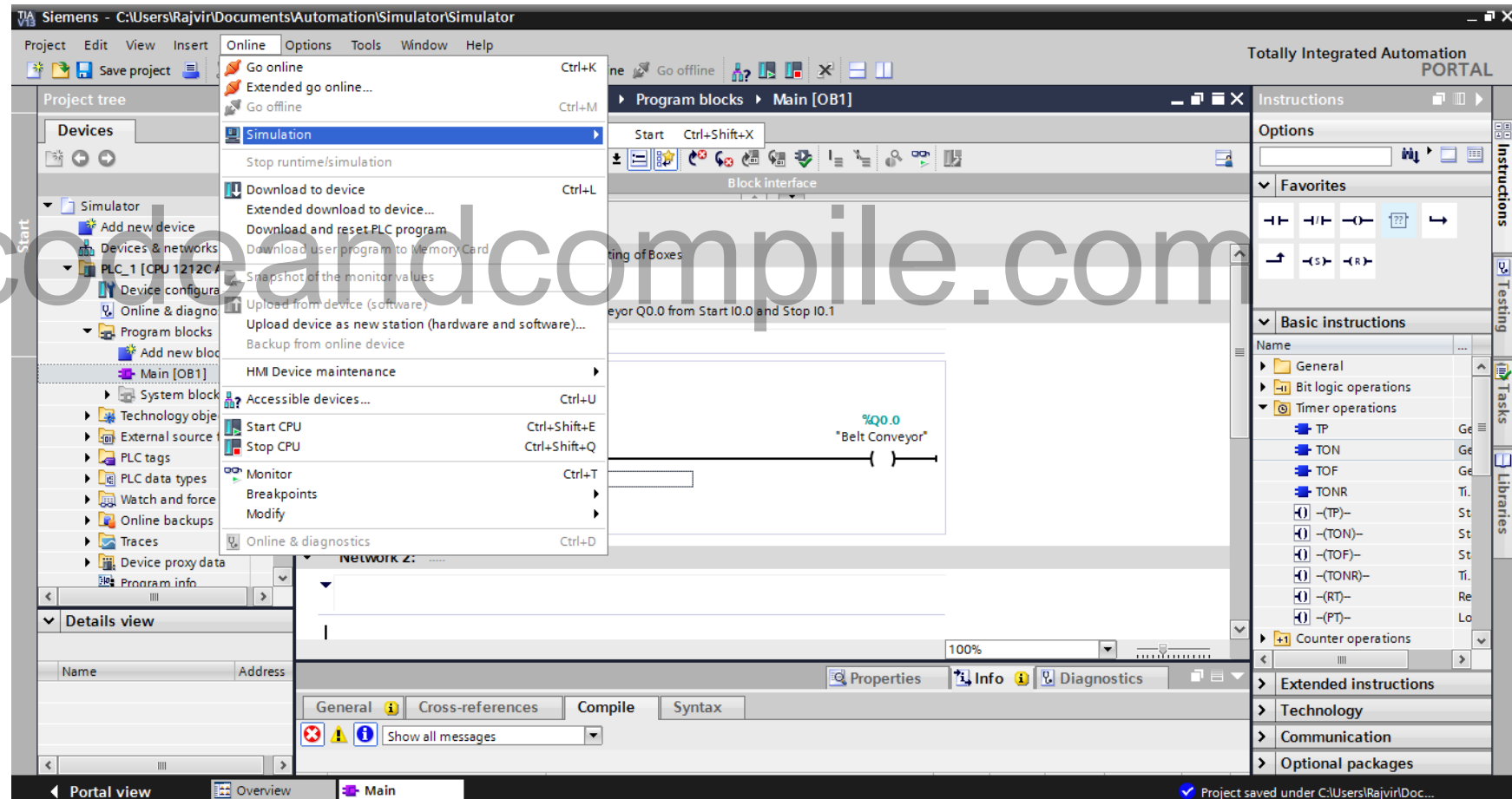
## Step 4- Add your PLC Hardware

Navigate to **Device Configuration** and drag your PLC in main window which you want to simulate!



## Step 5- Start the Simulation

In Siemens TIA window Navigate to  
**Online -> Simulation -> Start**

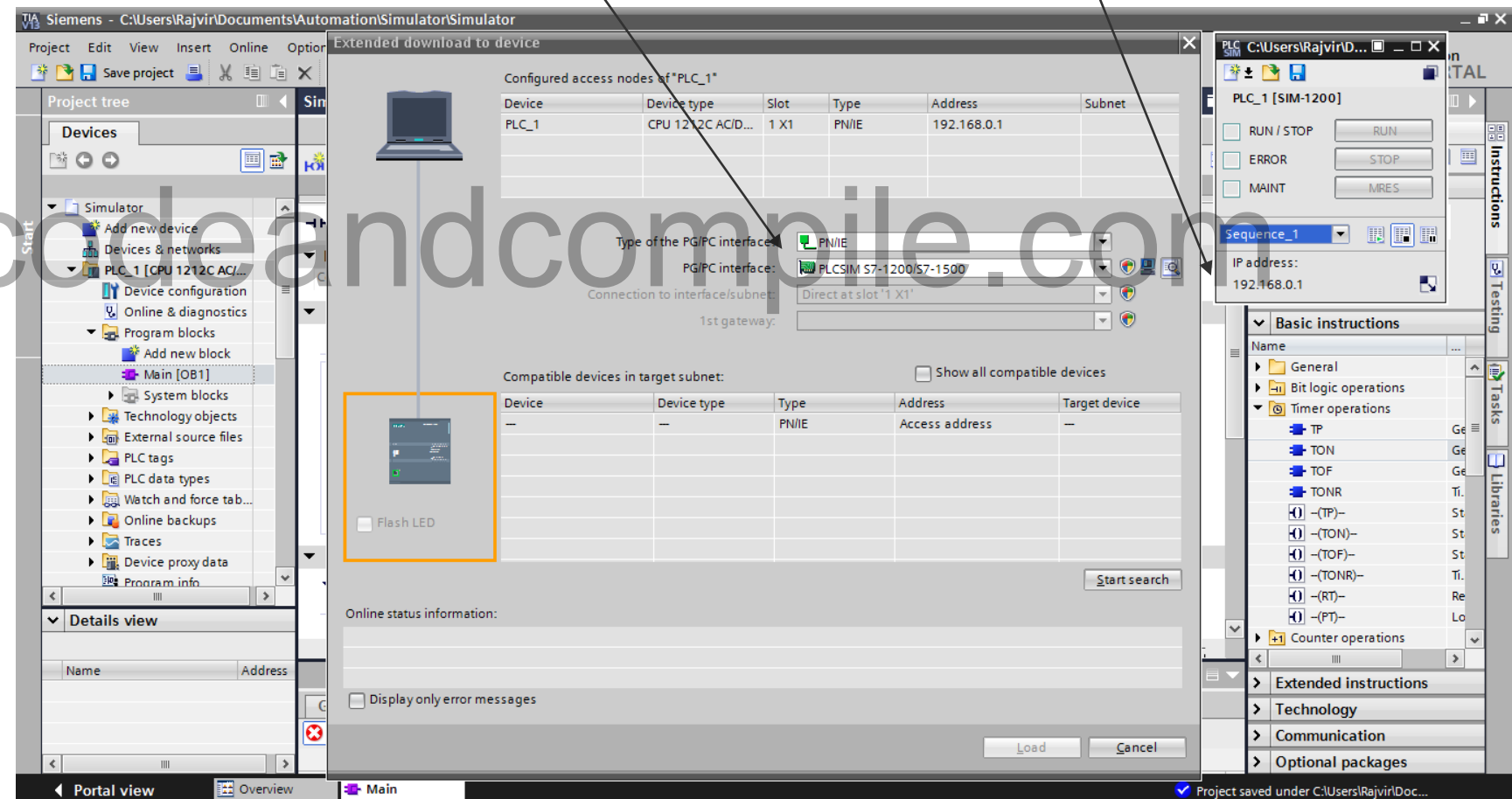


## Step 6- Detect your simulated PLC

You will notice two windows open automatically.

Make sure PG/PC Interface is selected  
to PLC SIM S71200/ S7-1500

You will notice that it will assign the IP  
address to the Simulator PLC



## Step 7- Select your Simulated PLC

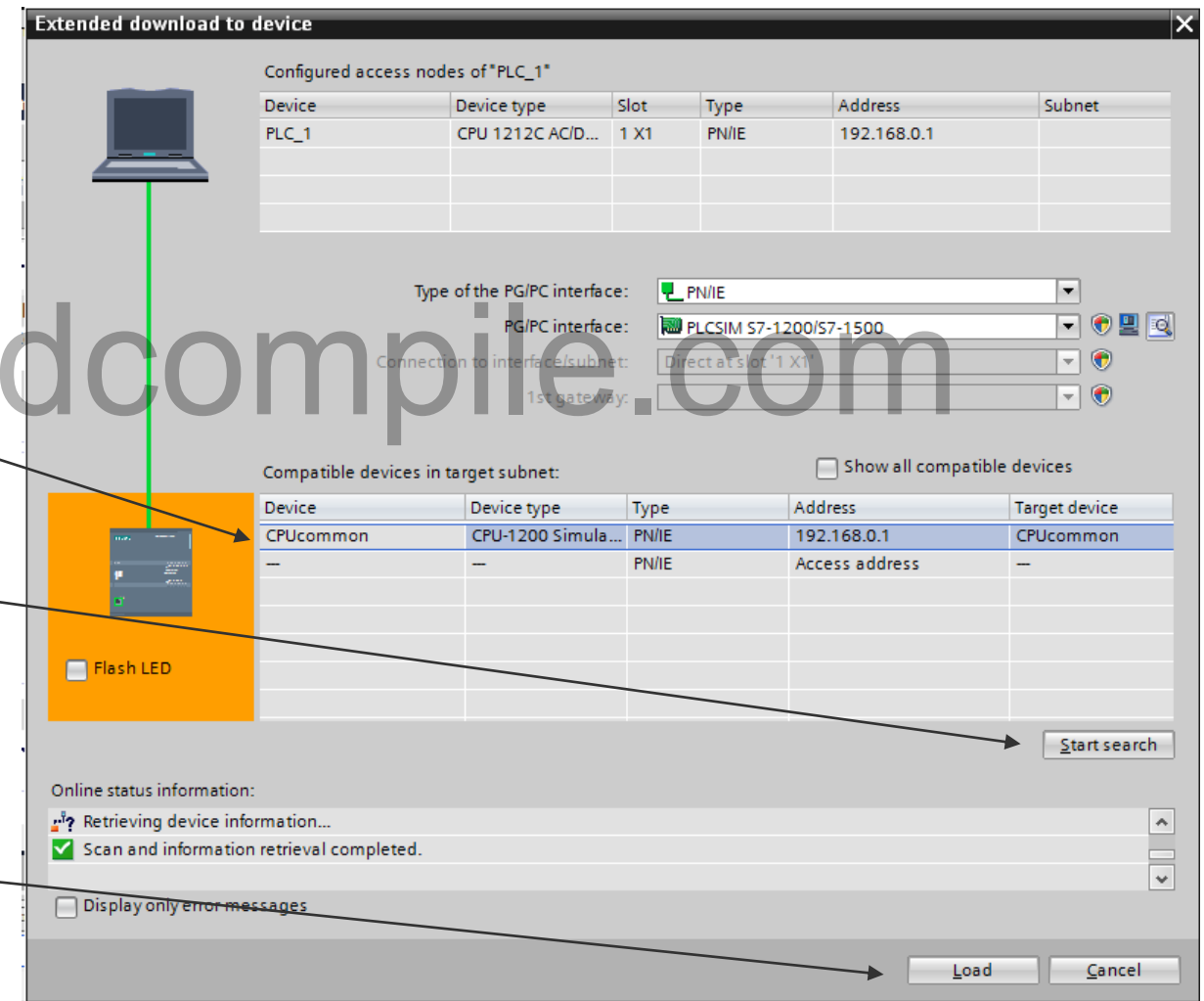
Click on "**Start Search**" in this window



You will see your  
**simulated PLC** in this  
list.

Click on "**Start Search**" to  
locate your simulated  
PLC.

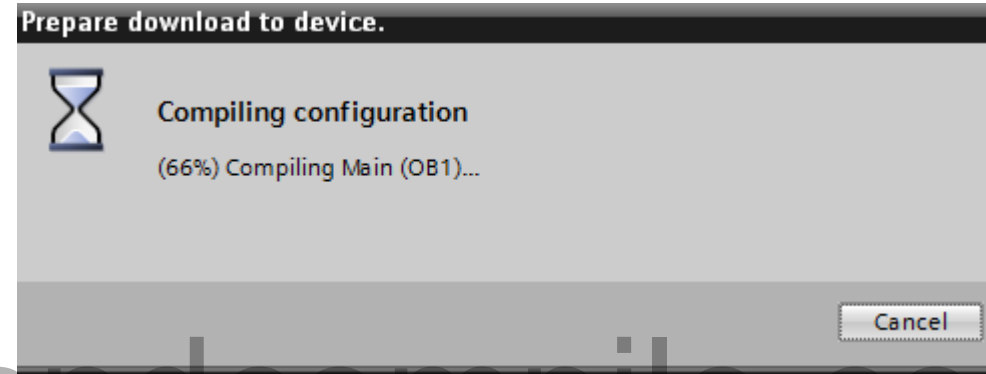
Then click "**Load**" to  
download the Program in  
your PLC





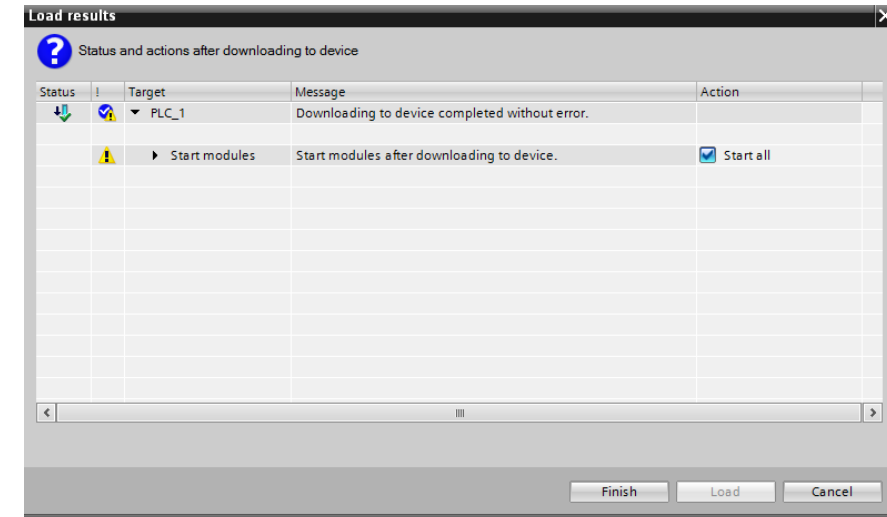
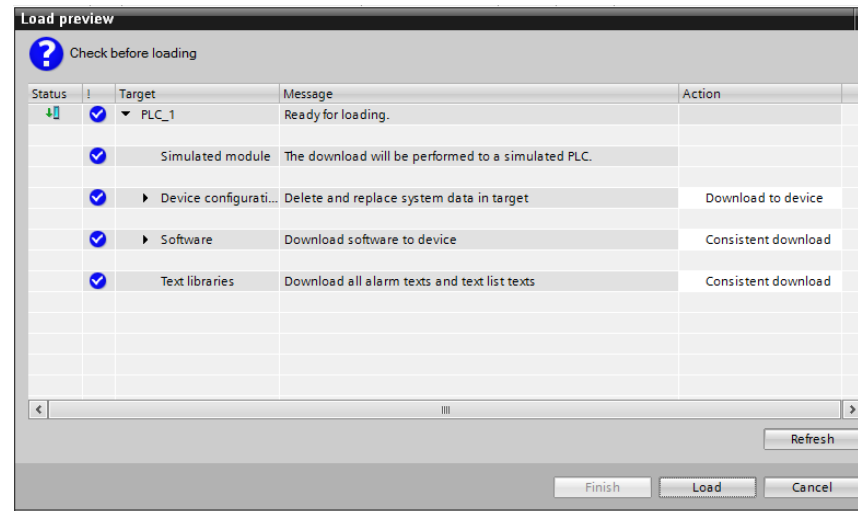
## Step 8- Download the program in PLC

The program will **compile....**



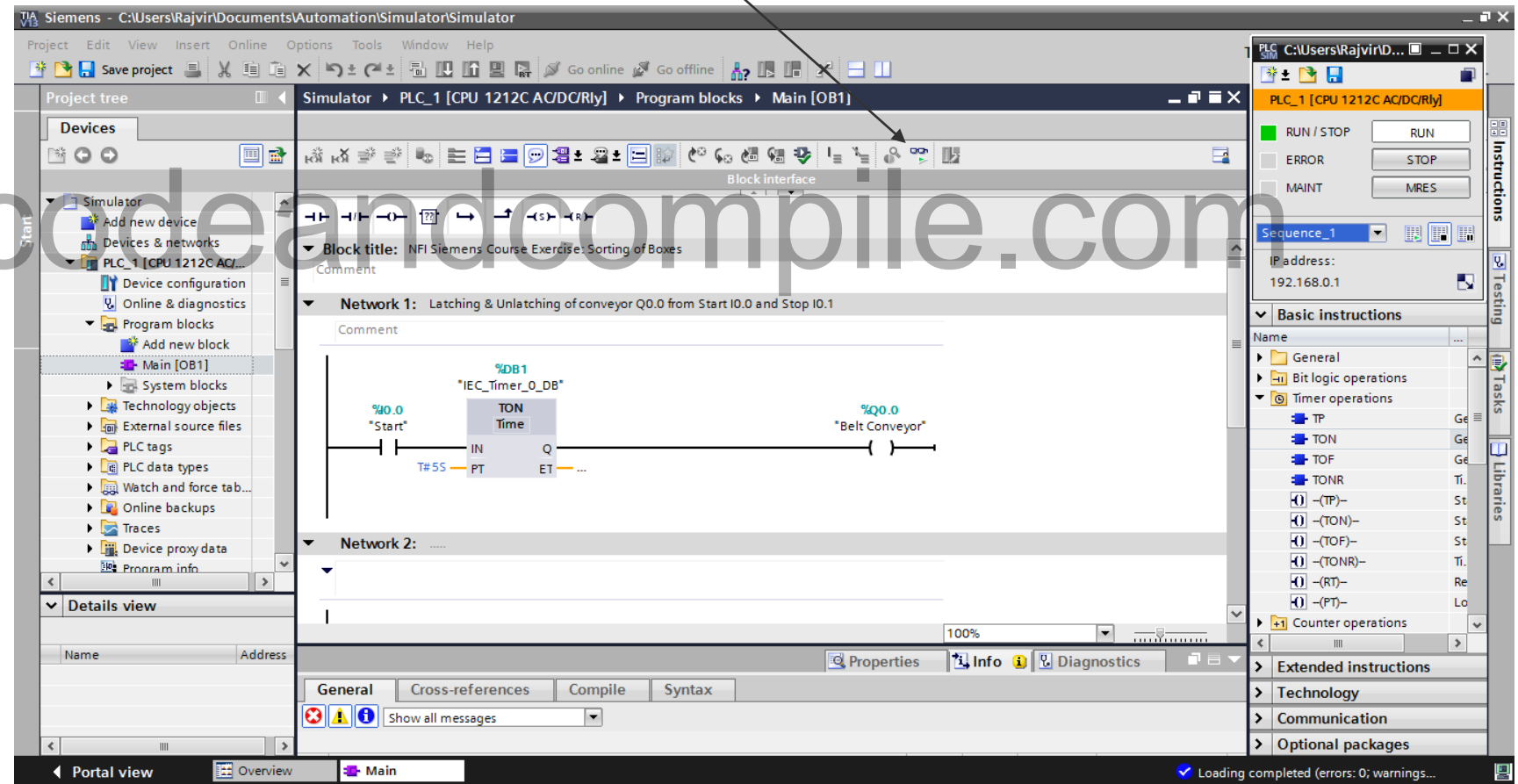
Click on "**Load**"

Then click "**Finish**"



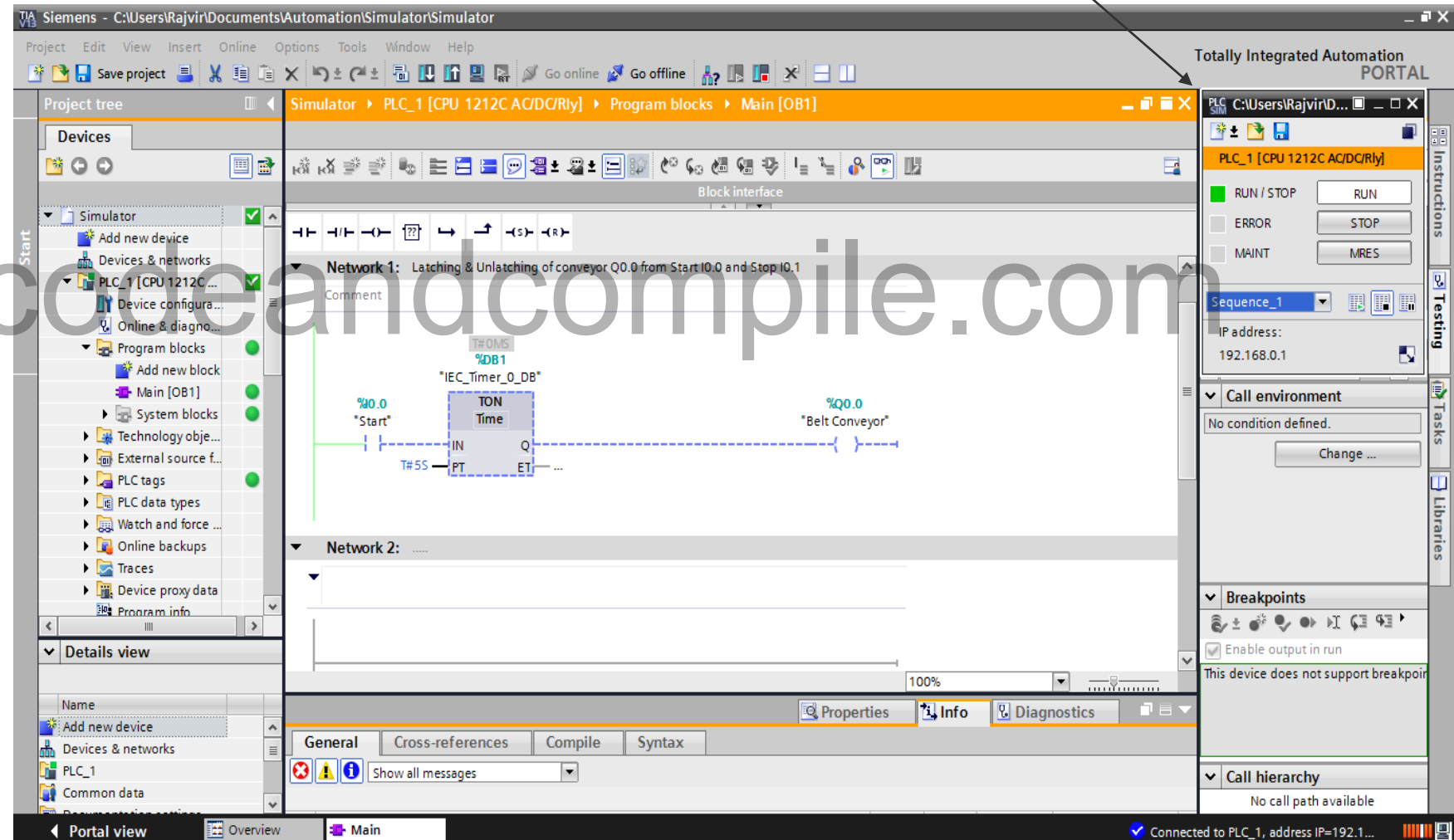
## Step 9- Enable Monitoring!

Then you will see this window which ensure the program is successfully downloaded to your simulated PLC. Then click on this symbol (Monitoring)



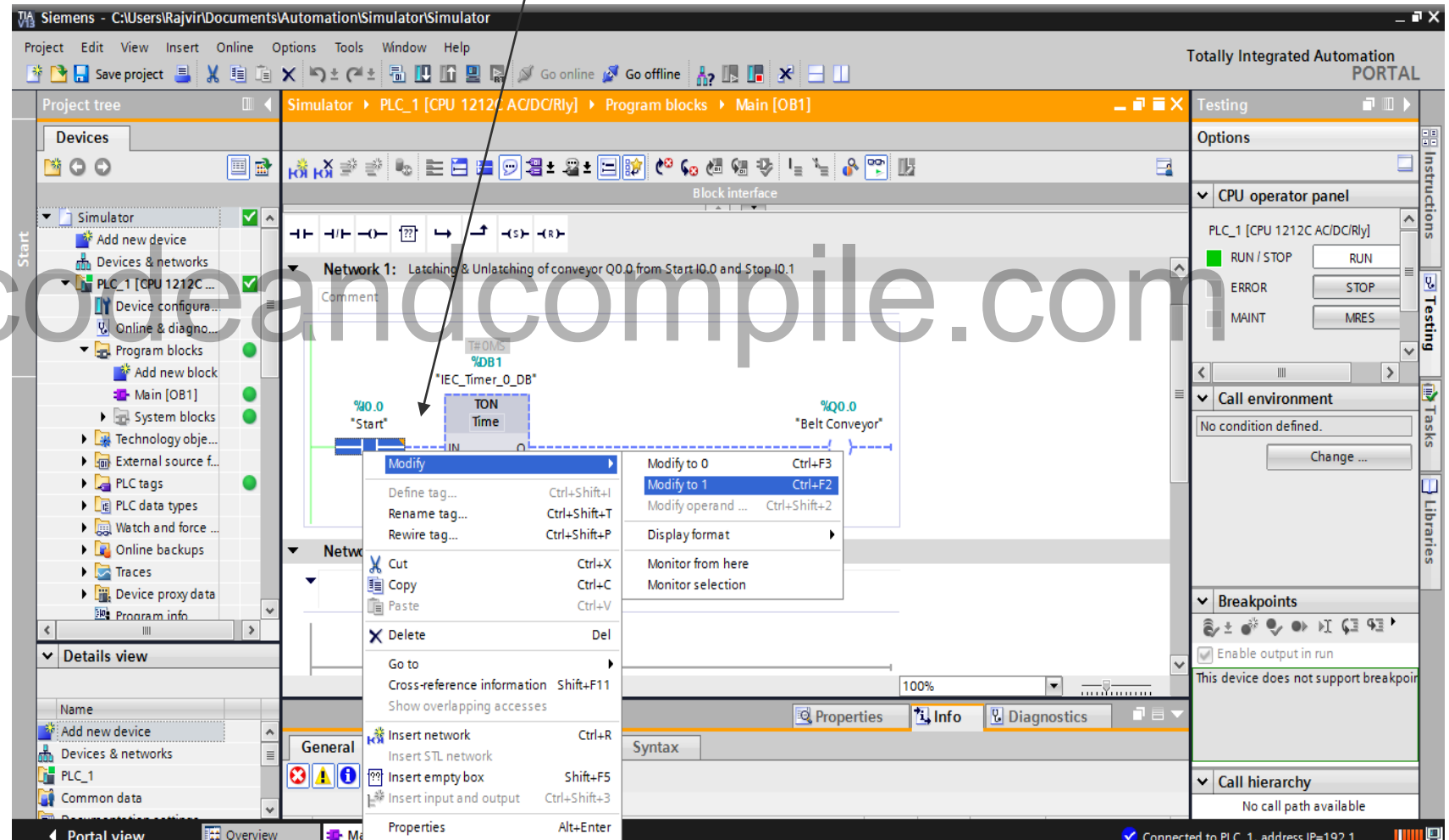
## Step 10- Simulator is ready to use!

Then you will see this window which **read/write** the status of **simulated PLC**.



## Step 11- Test trial your program

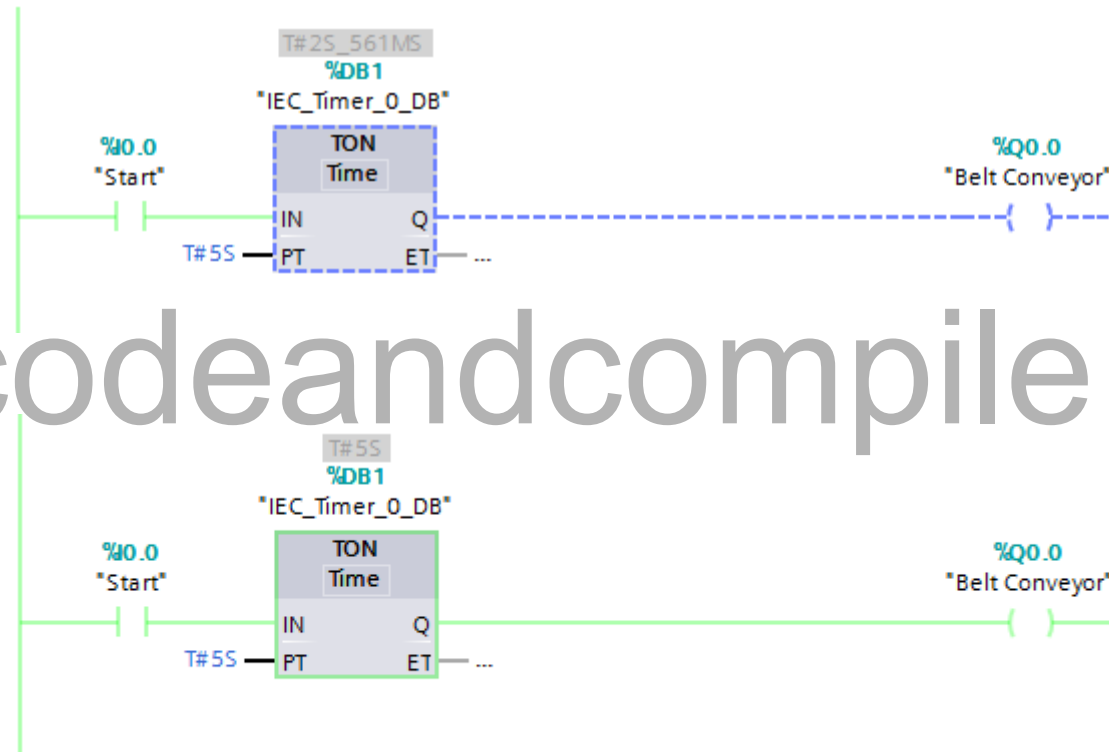
Take a trial of your Program. To activate the bit : **Right Click and navigate to Modify to 1**





## Step 12- Test your other logics!

Notice the behaviour of your program. **It will act like being run in real PLC.**



*You can try all the logics solved in the course or quiz in*  
**Siemens TIA PLC Simulator**

## Important Information

- The trial version of Siemens TIA PLC SIM works for only 7 days
- To extend your trial version you must buy valid license

Thank you

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in the course!*



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