



# **Tokin Auton**

## **Algo User Guide**

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# Introduction

Horizon Auton is a system that can automatically trades through a script.

Automatically trades through Algo from HorizonAuton to develop and operate script.

Script language is “C#”.

This guide explain how to use the Algo trade.

Togaku support Algo script as extension script. These extension script can download on Togaku Website.

Please refer to the “Run Algo Script” chapter for operation guide.

About develop Algo script, please refer to the “Develop Algo script” chapter.

First of all, please confirm if your computer have been installed the Horizon Auton. If didn't, please install Horizon Auton first.

You can use demo account if you just use Algo. You can confirm the operation and results after use the demo account more than one month.

## File type

Algo file tail code is divided into two types “.Alg” and “Ale”.

Type	Tail Code	Source Script Code	Running Script
Original File	.alg	Visible	Can
Running File	.ale	Invisible	Can

※Tail code is the word in the end of the file name used to identify file types.

Original file can be check and edit the original script.

Running file can execute the original script.

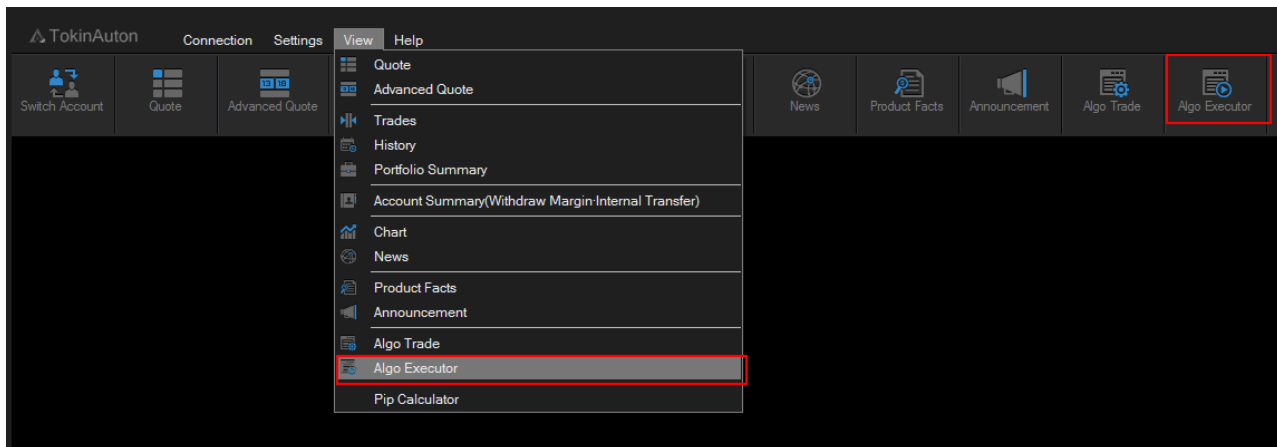
# Run Algo Script(Extension fuction/Run file)

Follow example use the Algo script(running file) provide by Togaku.

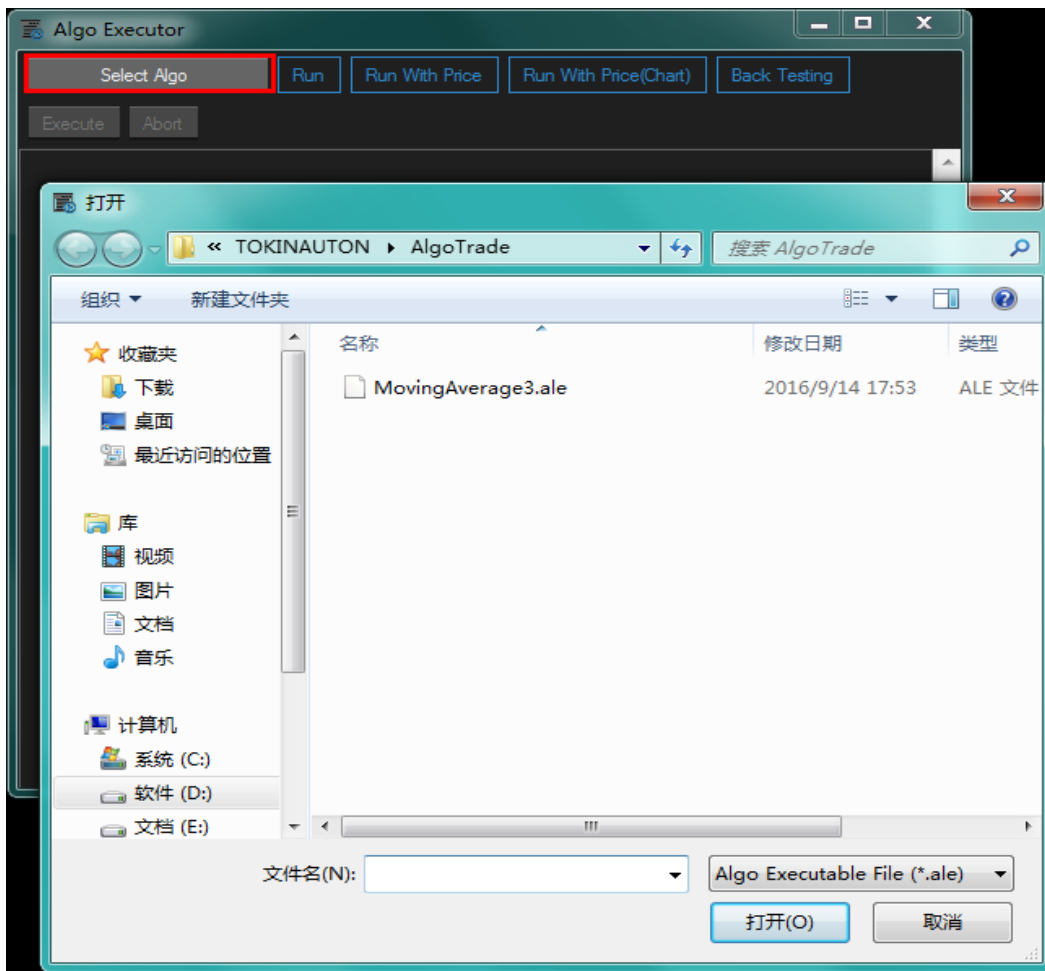
## How to start

(1) Start Horizon Auton.

(2) Algo Execution on the right corner of the HorizonAuton. Or, Click the menu “ Algo Execution”.



(3)Click “Select Algo” to open the extension file which has been downloaded.

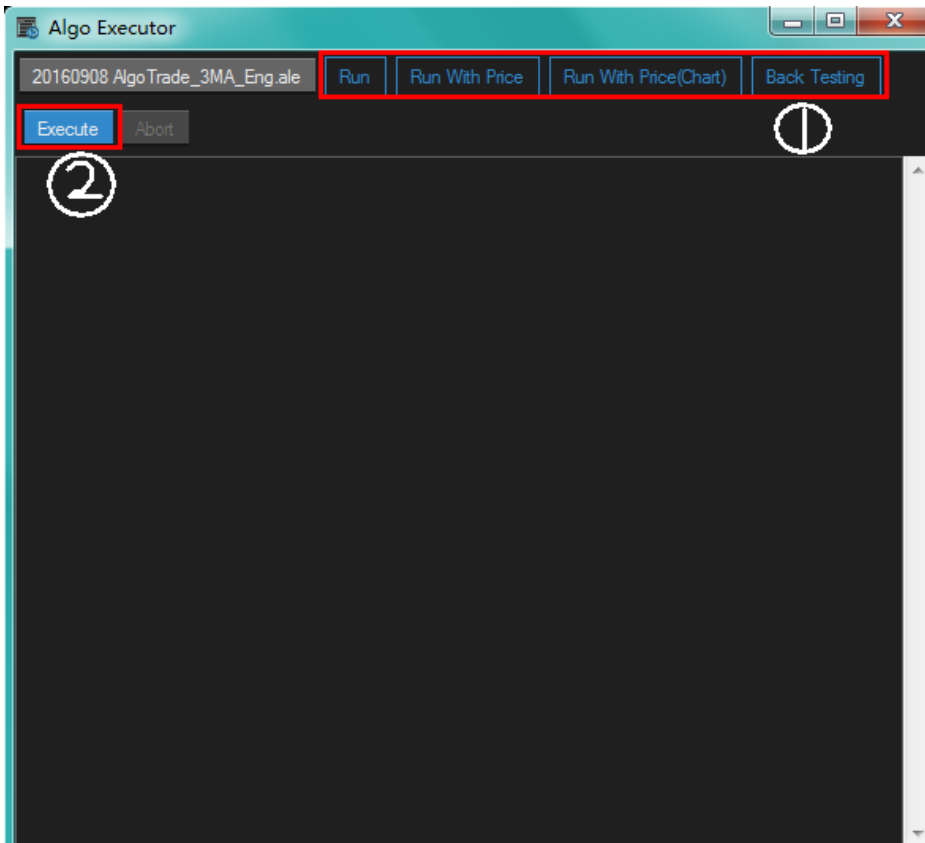


(4)Click any button in the red frame①(Turn blue after click), then click the red frame②”Execution” “Set product and Parameter, etc.

Click “OK” in the setting window in the red frame② to open the script. Click “cancel” to close the script.

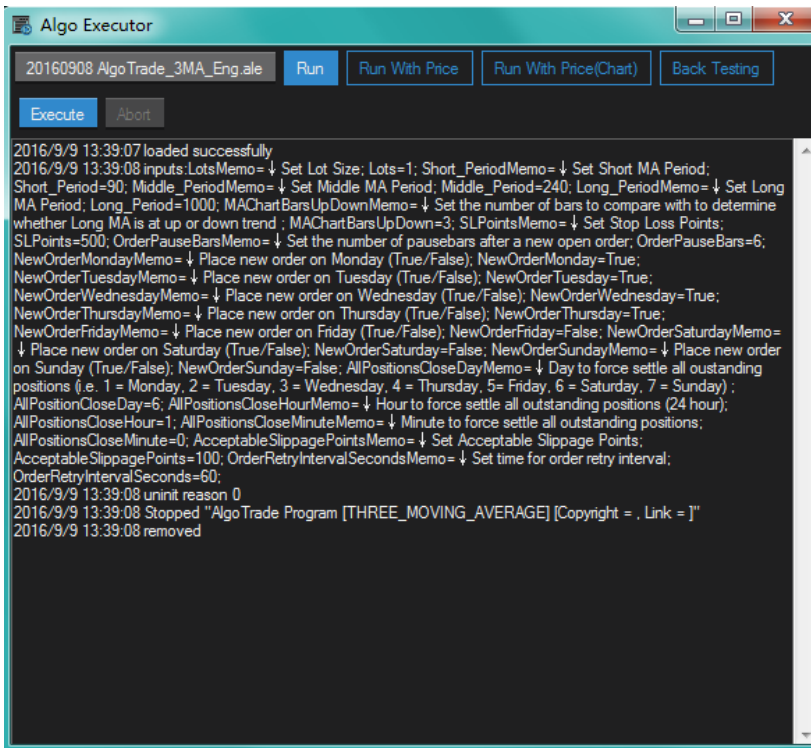
Function of each button please refer to the “develop the Algo script (source file) chapter “Script Execution”

Parameter setting of the Algo script can refer to the reference of the executed Algo script.



## Execution

Show execution log of the Algo script.



## **End**

Click abort in the “Algo execution”.

## **Other**

### **Execute more than two script**

If you want to open more than two script, please click “Algo Execution” repeatly to open the Algo script.

# Develop Algo Script(source File)

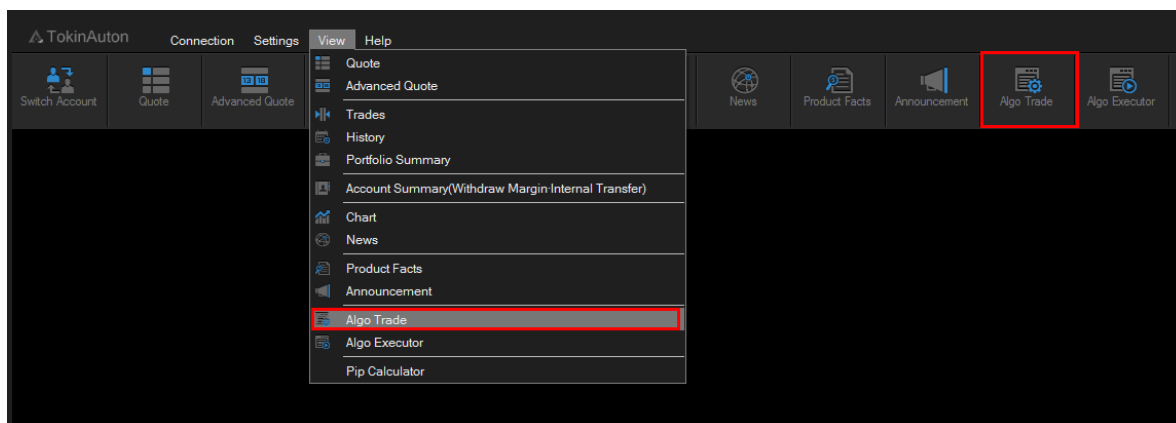
## Start

How to open the create, edit and compile window.

There are two way to open it.

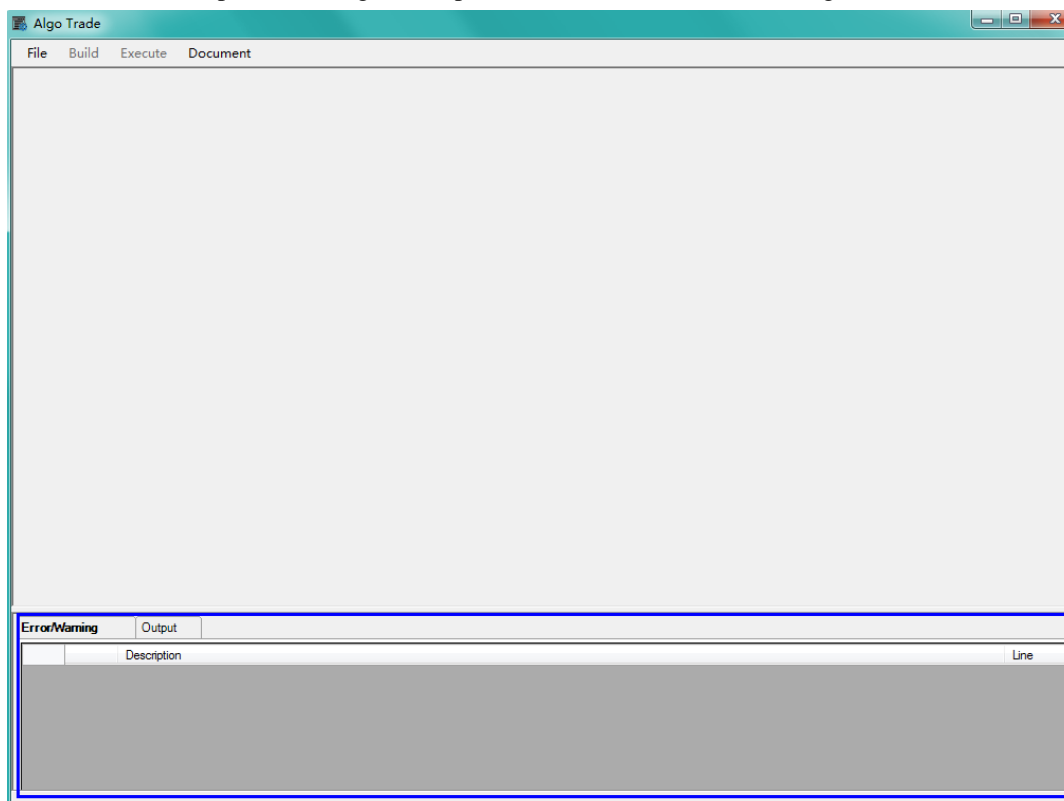
Click the “Algo Trade” on the right corner of the Horizon Auton.

Or click the upper menu “View”-“Algo Trade”



## Workspace

- The script will be edited in the red rectangular area.
- The errors and output of running the script will be shown in the blue rectangular area.



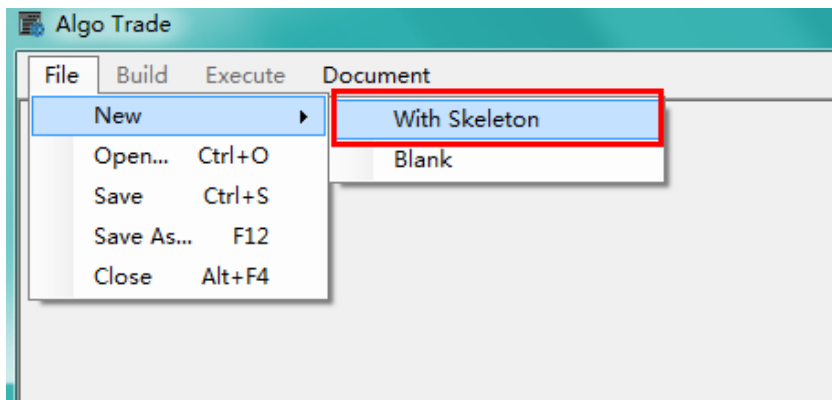


# Documentation

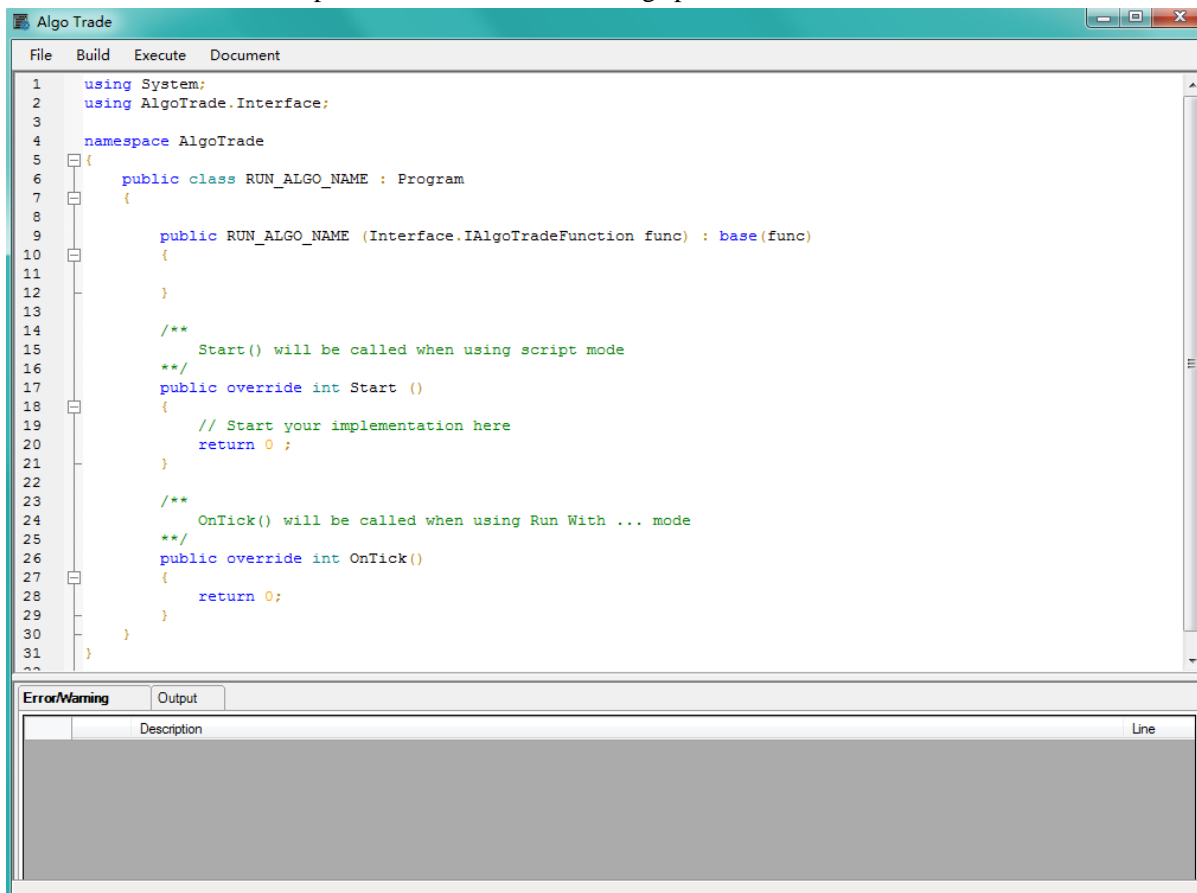
## Write a script

### Create With Basic Structure

To write the script with the basic structure, go to “File” > “New” > “With Skeleton”.

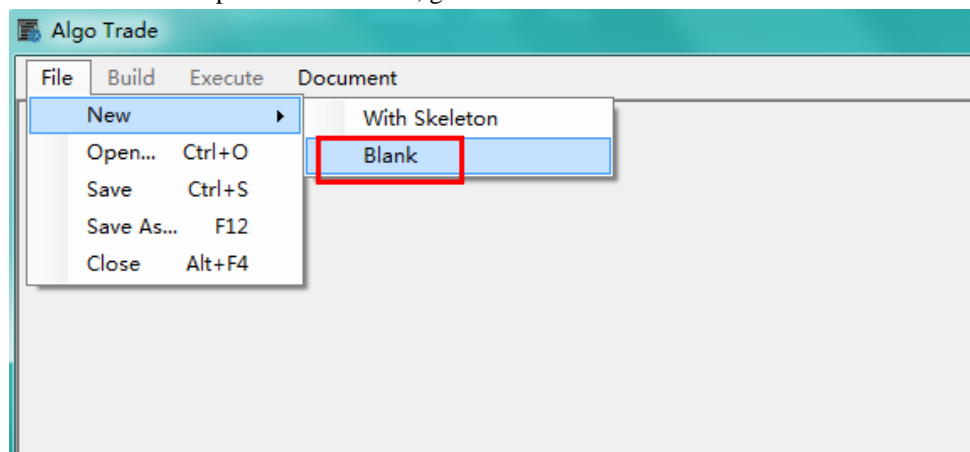


A basic structure of the script will be loaded in the editing space



# Blank Editor

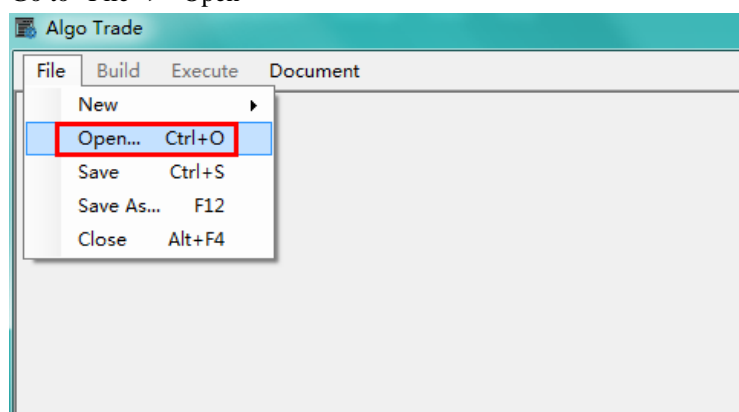
To write a script in a blank editor, go to “File” > “New” > “Blank”



A blank text editor will be loaded.

## Open an existing file

Go to “File” > “Open”



Choose a file and click “Open”

Only .alg format files can be opened in this window

The script will then be loaded in the editing space, user can edit, compile and execute the file.

## Save

Click the upper menu “File” > “Save”.

Save the original file display in the workspace (.alg)

## Save as

Click the upper menu “File” > “Save as”.

Input the file name and save the file.

Only the (.alg) format can be saved

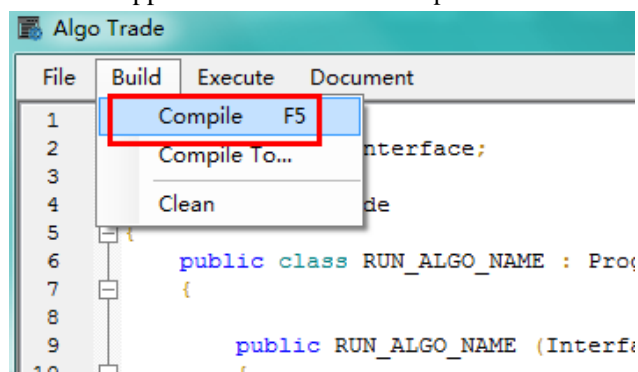
## Build ( build script )

### Compile the script

Compile is the process that transfer the source code into the executable code displayed in the workspace. Compile is the necessary process after edit the source script. In this step, linkages of the objects in the code will be examined.

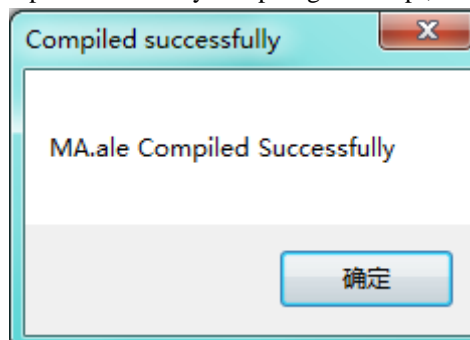
Compile the displayed source code.

Click the upper menu “Build” > “Compile”.



In the “Save” window, input the file name and click save. Open the saved file to compile, it will rewrite the original file. The compiler will go through the script. If there are any errors.

Upon successfully compiling the script, “FileName.ale compiled successfully” message will pop up.

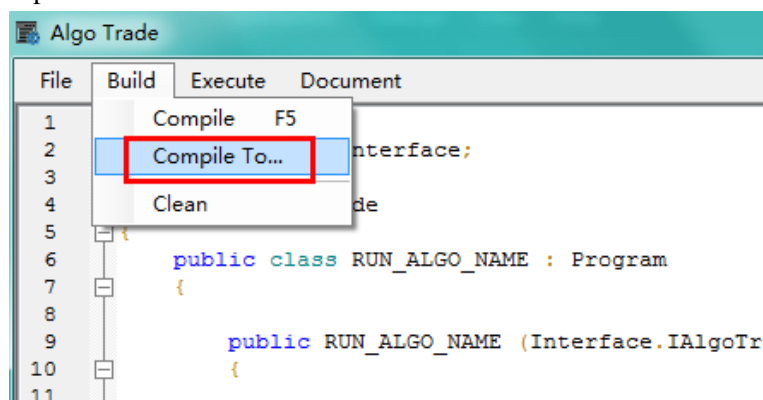


### Generate execution document

Compile the source code and generate the execution document.

Click the upper menu : “Build” >”Compile to”

Input the file name and save it.



## Clean

Clean refer to delete all the output information under the workspace.

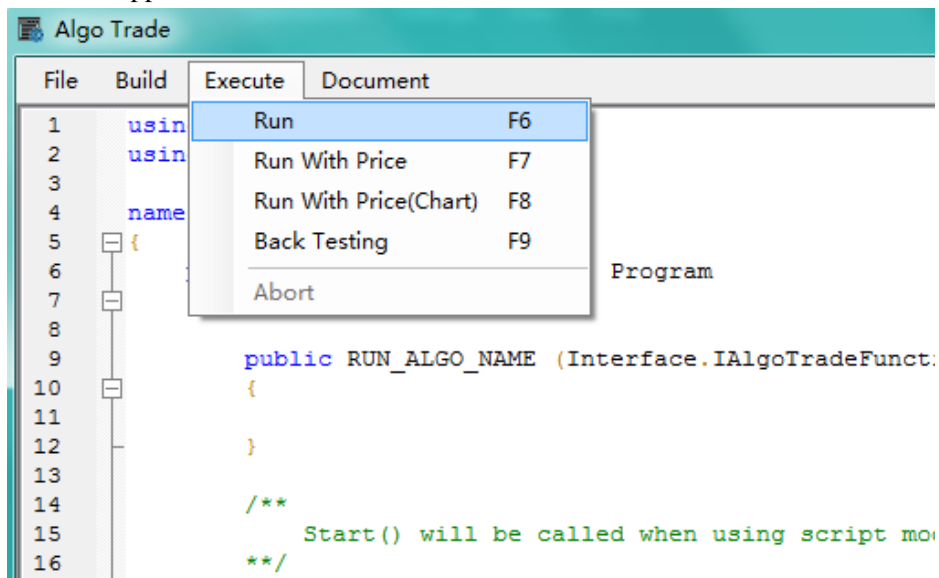
And also can delete the “execution document(.ale) saved by “comple to”

Please save the “execution document(.ale) into other file before click “Clean”.

## Run The Script

Run The Script after compile successfully.

Click the upper menu “Execute”



## Run

Run the commands in the script

“Run With Price” is running continuous , But run with price only run once.

## Run with Price

Run the script with the choose product and parameter.

If you want to run the automatic trade script continuously, please select this function.

## Run with Price (Chart)

Run the script with the choose product and parameter and open a new chart.

Displayed chart can add a variety of technical analysis indicators

Note :

Please don't close the chart before the running Algo trade script stop, It could lead the Algo trade script premature termination.

## Back Testing

Do simulation of the trading strategy on relevant past data in order to test the effectiveness of the script ◦

If use computer, it can support “.xlsx”and“.csv”format.

## Terminate the script

Click “Abort” button and terminate the running script.

## Execute more than two script

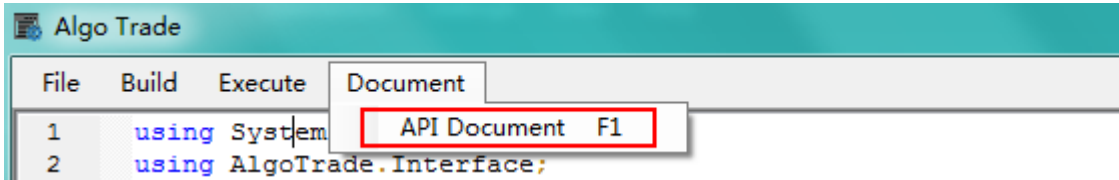
If you want to open more than two script, please click “Algo Execution” repeatly to open different Algo script.

# Help

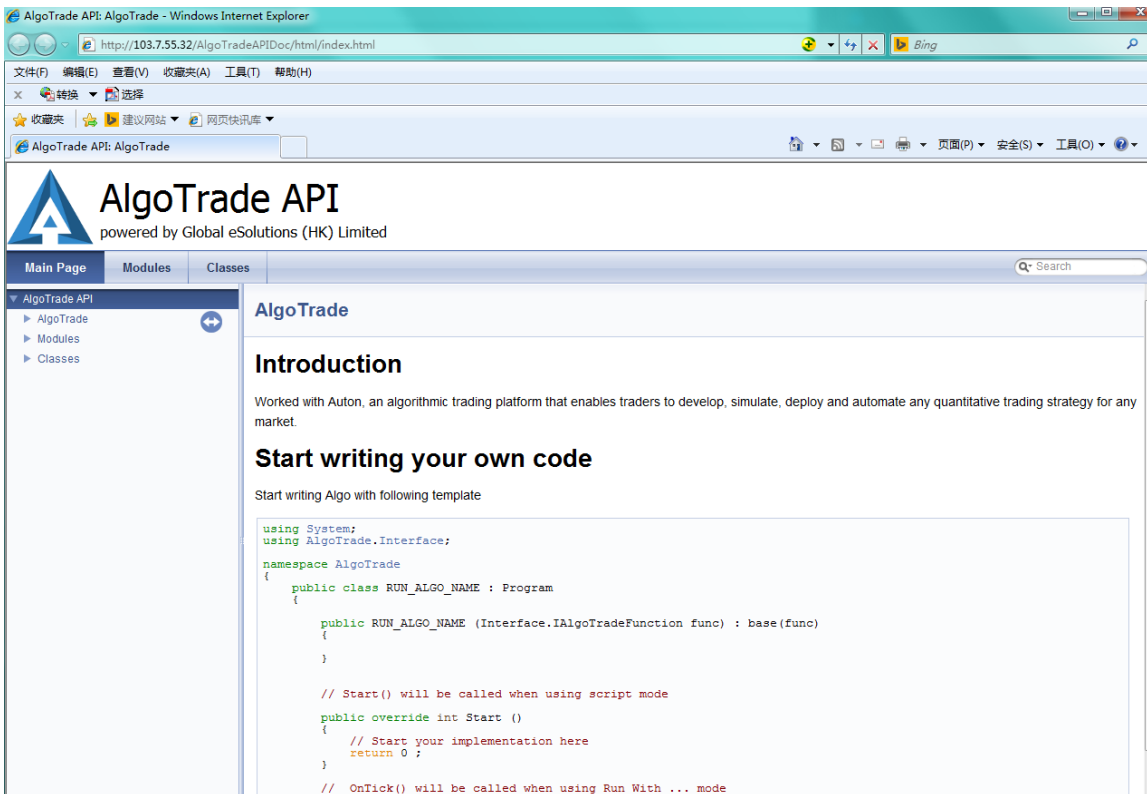
## API document

Algo'API is open to public

Click upper menu "Document" >" API Document".

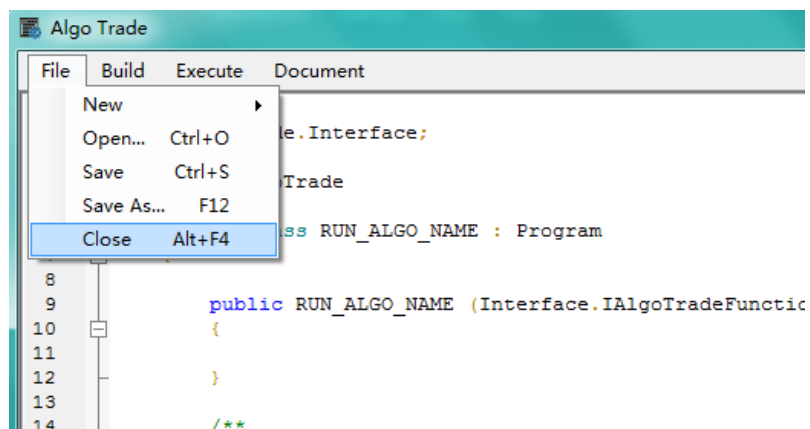


API document show in the browser.

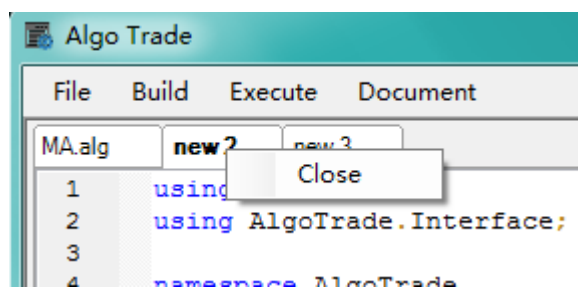


## Close the workspace

If want to close the workspace, please click the upper menu : “File” >”Close”.



If want to close the particular workspace in many workspace, please right click on the label of the particular workspace, then click “Close”.



END