

Creating a C# script within the AKI HMI Panel

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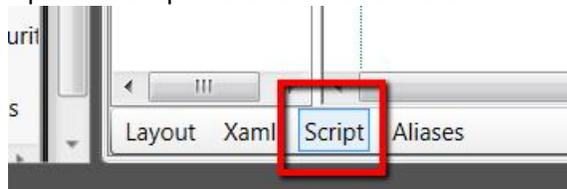
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You can create a script that runs a C# program in the background of the HMI screen. A script in the Tag screen will run in the background all of the time. A script in one of the HMI screens will run in the background only when that screen is active.

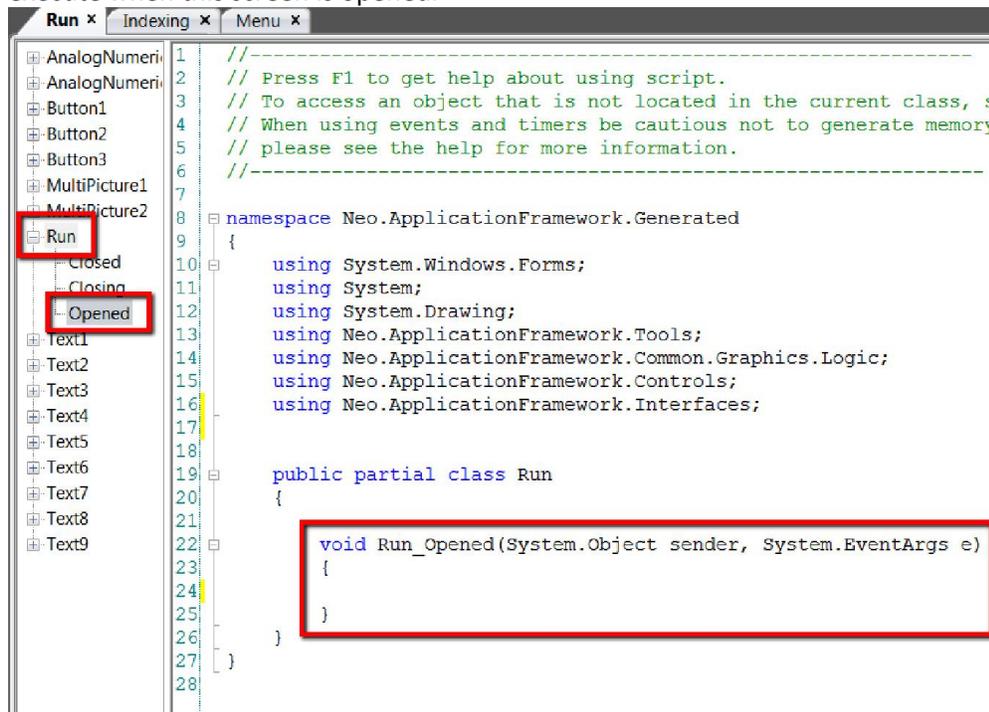
In this example, we need a script that will set MT_NUM = 21 and MT_LOAD = 1 when the Run screen is opened. And we need a pause between these two commands to allow the AKD drive time to process the Modbus commands.

To create this script, follow these steps:

Open the script tab of the Run screen.



Expand "Run" (the name of the screen), and double-click on "Opened". This will create a script that will execute when this screen is opened.

A screenshot of the HMI software interface showing the C# code for the 'Run' screen's 'Opened' event. The left pane shows a tree view with 'Run' and 'Opened' highlighted with red boxes. The main pane shows the following code:

```
1 //-----  
2 // Press F1 to get help about using script.  
3 // To access an object that is not located in the current class, s  
4 // When using events and timers be cautious not to generate memory.  
5 // please see the help for more information.  
6 //-----  
7  
8 namespace Neo.ApplicationFramework.Generated  
9 {  
10     using System.Windows.Forms;  
11     using System;  
12     using System.Drawing;  
13     using Neo.ApplicationFramework.Tools;  
14     using Neo.ApplicationFramework.Common.Graphics.Logic;  
15     using Neo.ApplicationFramework.Controls;  
16     using Neo.ApplicationFramework.Interfaces;  
17  
18  
19     public partial class Run  
20     {  
21  
22         void Run_Opened(System.Object sender, System.EventArgs e)  
23         {  
24  
25         }  
26     }  
27 }  
28
```

Type (or paste) the following into the line inside the curly brackets of the “void Run_Opened” script:
Globals.Tags.MT_NUM.Value = 21;
Thread.Sleep(100);
Globals.Tags.MT_LOAD.Value = 1;

```
public partial class Run
{
    void Run_Opened(System.Object sender, System.EventArgs e)
    {
        Globals.Tags.MT_NUM.Value = 21;
        Thread.Sleep(100);
        Globals.Tags.MT_LOAD.Value = 1;
    }
}
```

In order to use the Thread.Sleep command, you must also type “using System.Threading;” in the top section of the script.

```
using Neo.ApplicationFramework.Controls;
using Neo.ApplicationFramework.Interfaces;
using System.Threading;
public partial class Run
{
```

This is what the script should look like:

```
namespace Neo.ApplicationFramework.Generated
{
    using System.Windows.Forms;
    using System;
    using System.Drawing;
    using Neo.ApplicationFramework.Tools;
    using Neo.ApplicationFramework.Common.Graphics.Logic;
    using Neo.ApplicationFramework.Controls;
    using Neo.ApplicationFramework.Interfaces;
    using System.Threading;

    public partial class Run
    {
        void Run_Opened(System.Object sender, System.EventArgs e)
        {
            Globals.Tags.MT_NUM.Value = 21;
            Thread.Sleep(100);
            Globals.Tags.MT_LOAD.Value = 1;
        }
    }
}
```