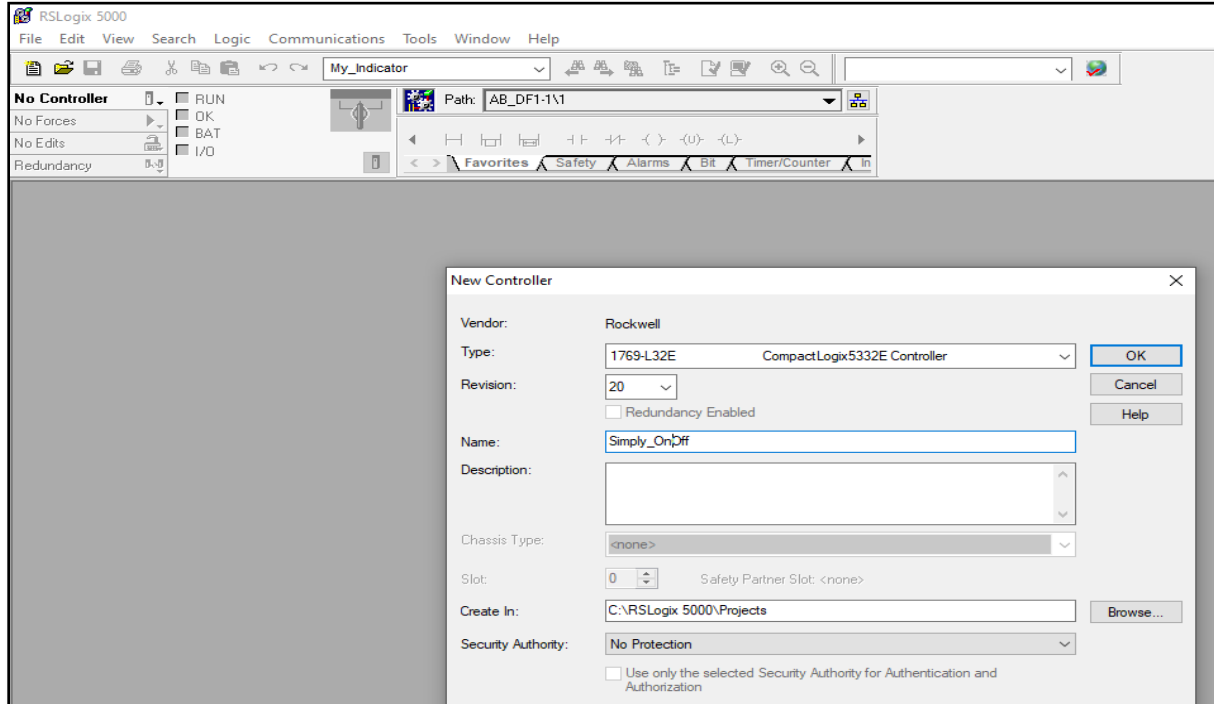
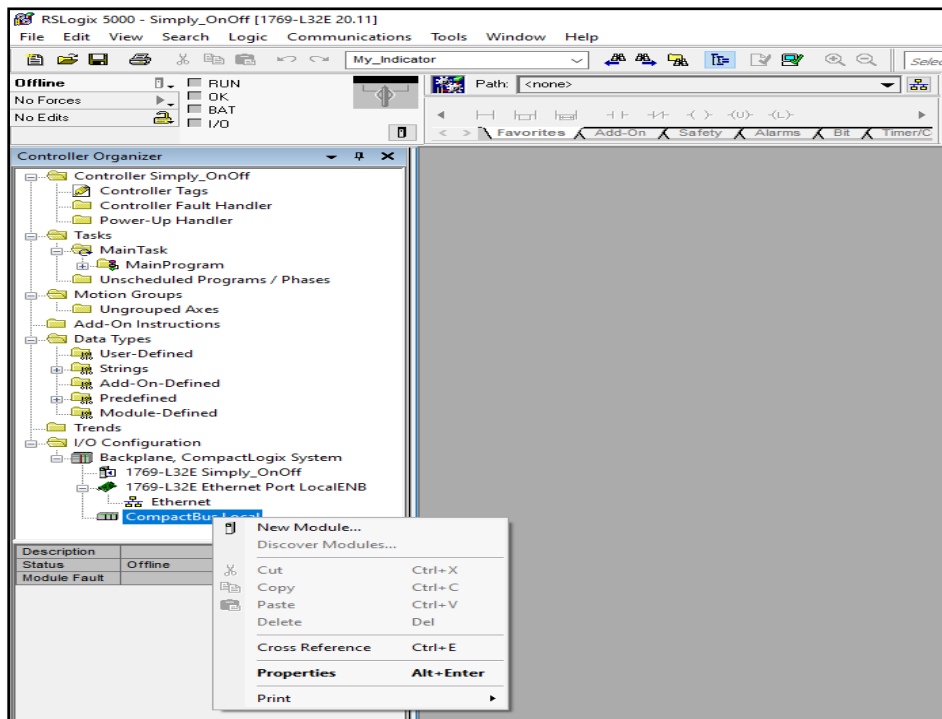


Programming in CompactLogix 1769-L32E

Go to the File and create a New Controller, select controller, name it and press ok at the end.

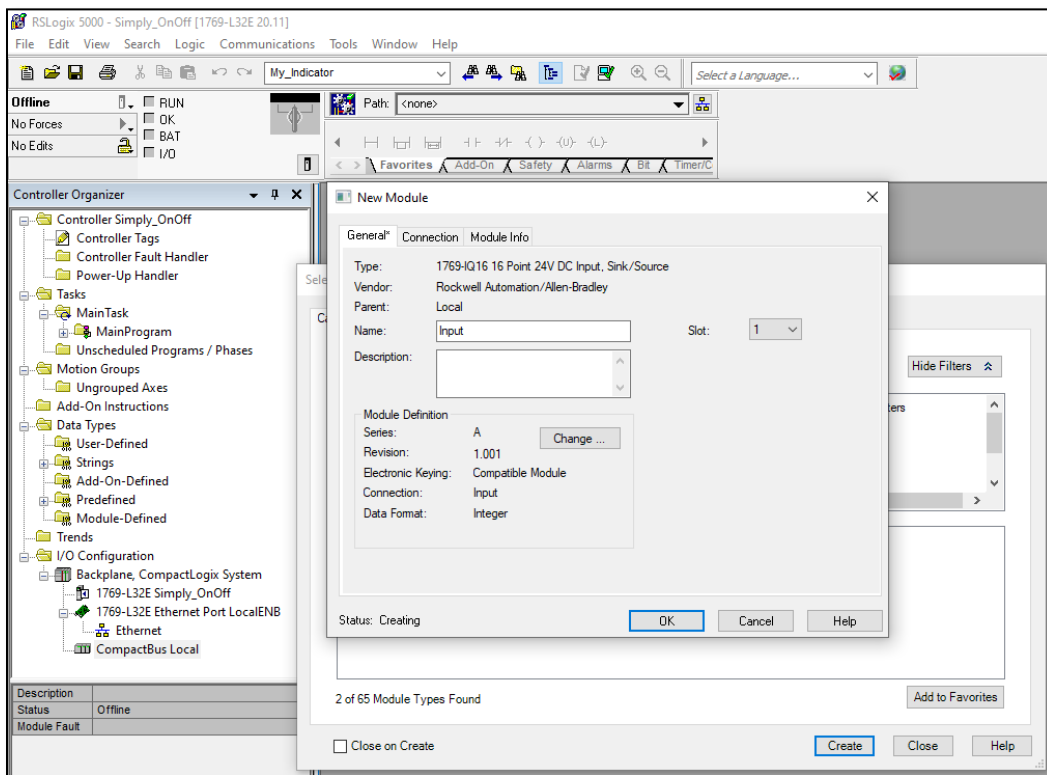
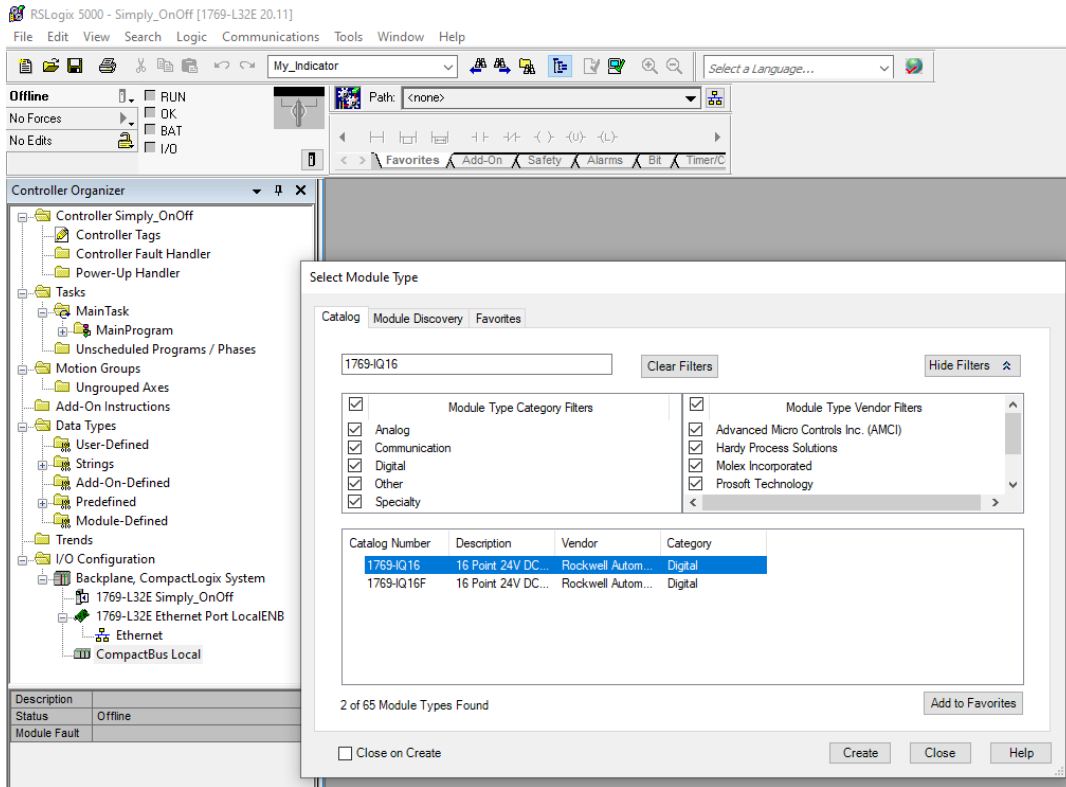


Simply just right click at the end and open **New Module** on **"Compact Local Bus"**.



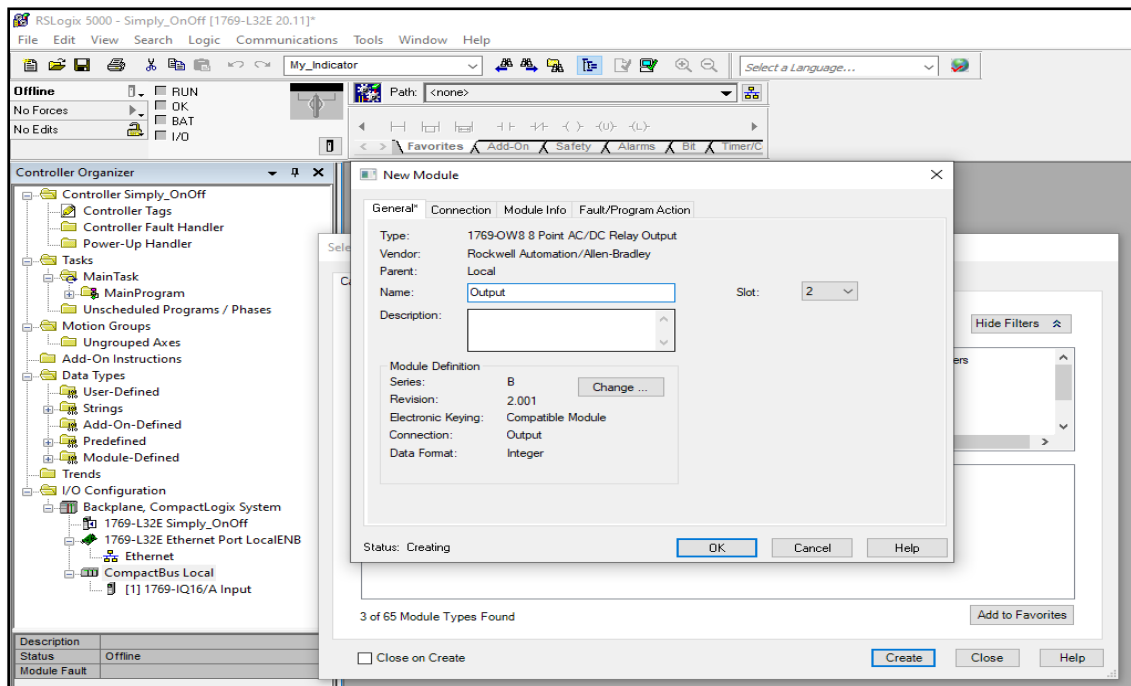
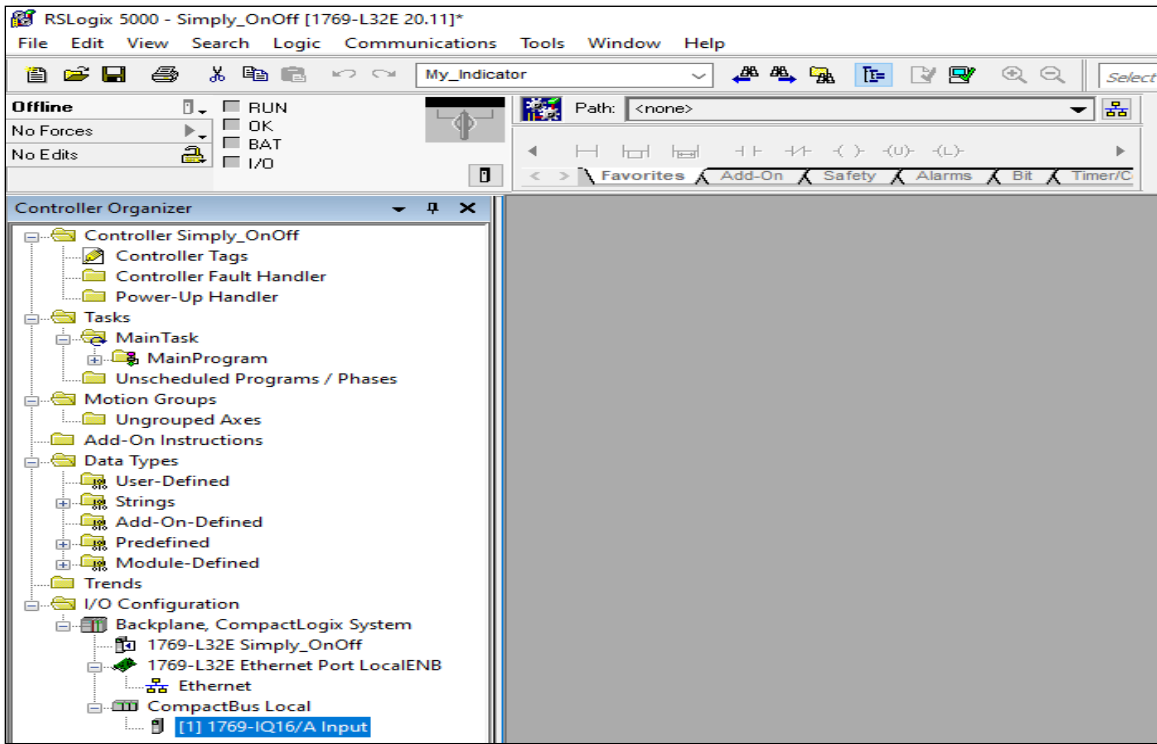
Programming in CompactLogix 1769-L32E

Search the Input Module **1769-IQ16-A** and Output Module **1769-OW8-B** with default slot number, create it, name it and press ok.



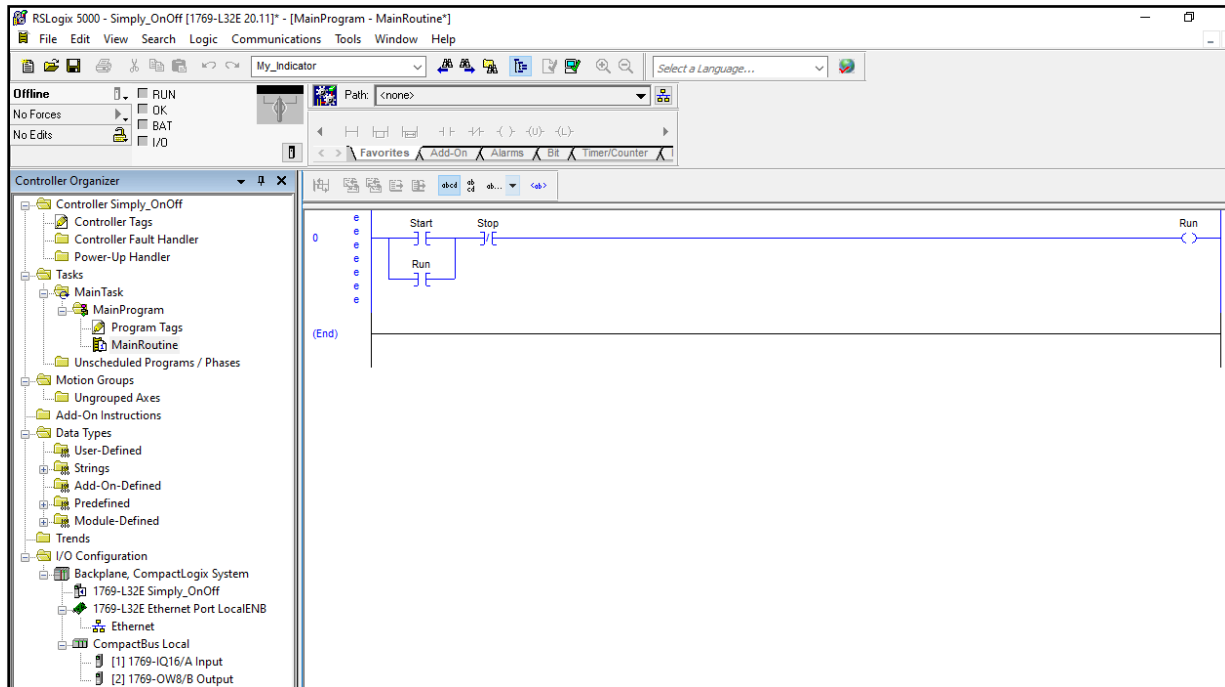
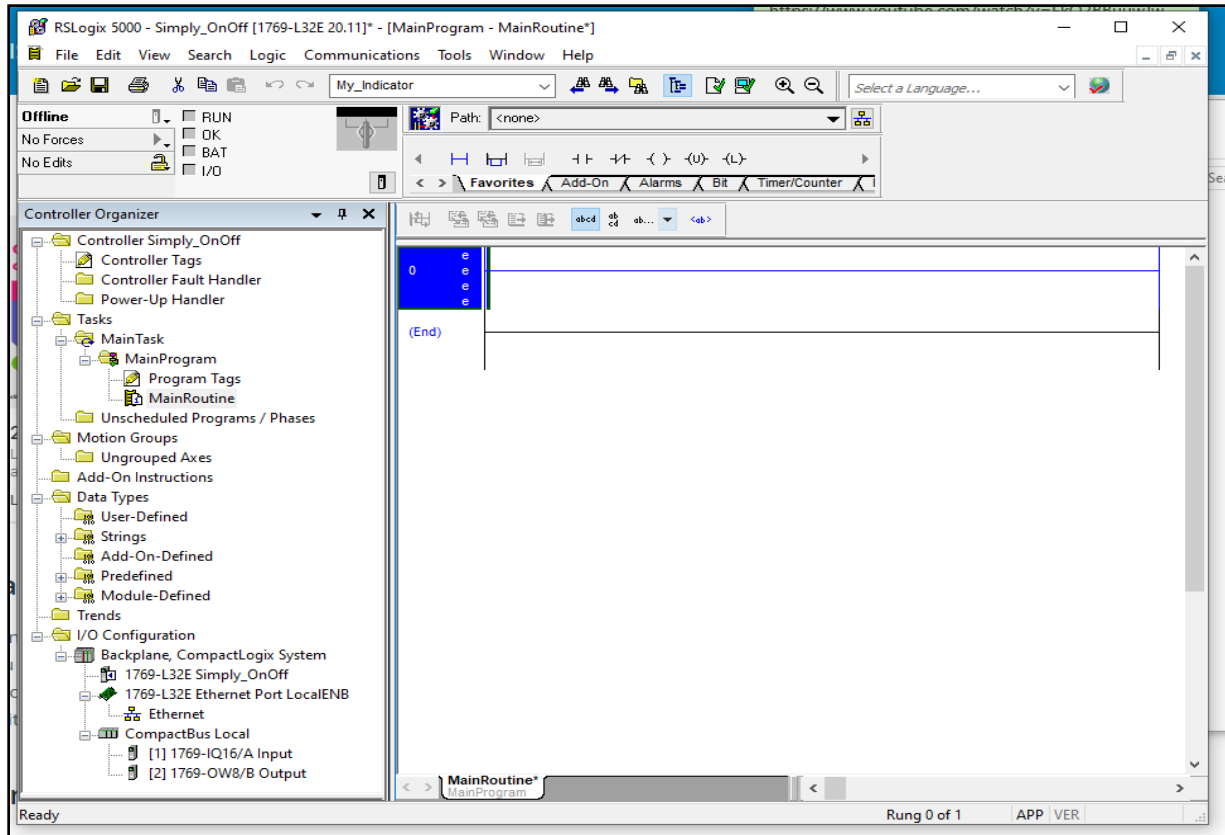
Programming in CompactLogix 1769-L32E

Similarly for the output Module.



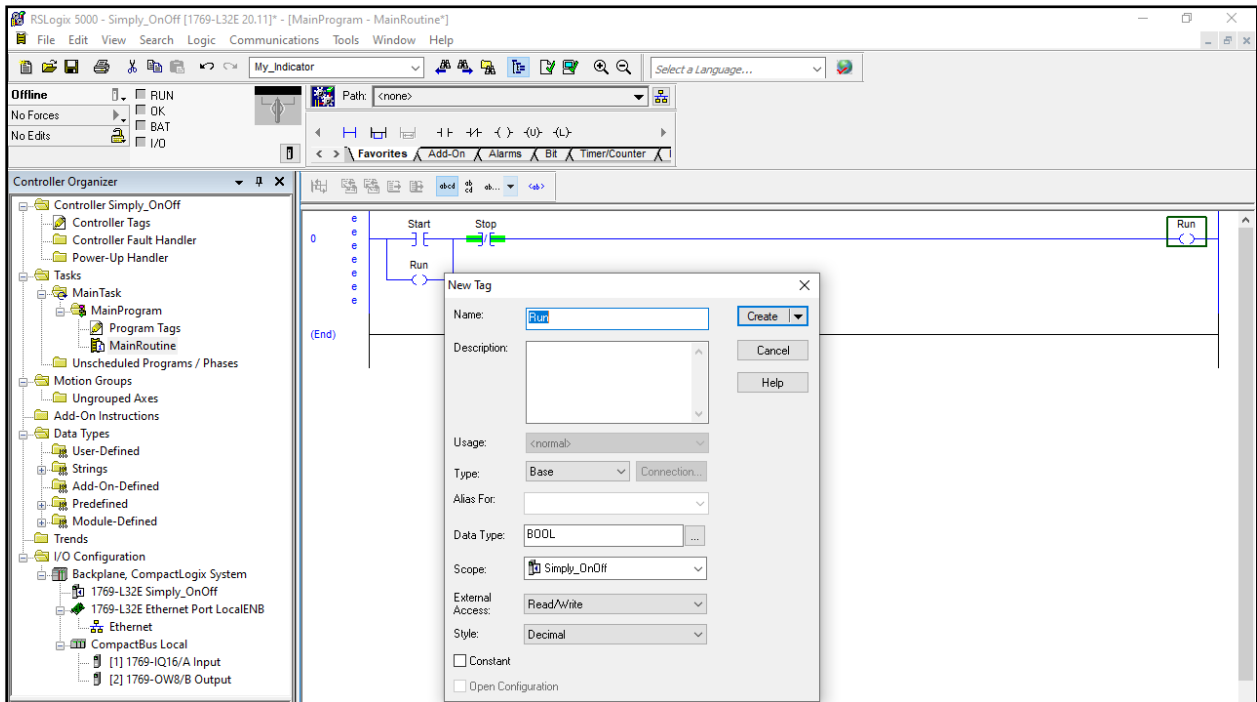
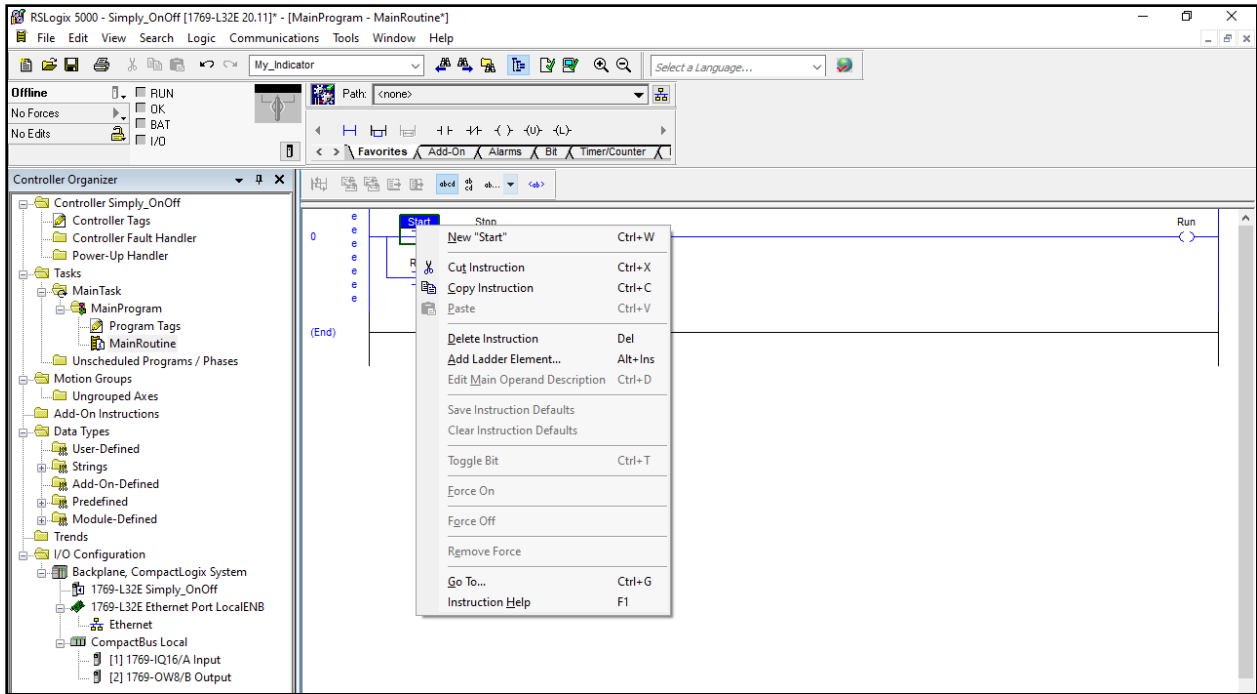
Programming in CompactLogix 1769-L32E

Go **Task-Main Task-Main Routine** and drag the ladder logics to construct interlock program.



Programming in CompactLogix 1769-L32E

Double click, **name it** after that right click on it and click **create it** and do same with every ladder logics.



Programming in CompactLogix 1769-L32E

Then after **edit** by right click and change the Type to 'Alias' select "Local:1:I:Data" Press down arrow and assign "0" as shown in figure. Similarly, for output also you have to do the same..

The screenshot shows the RSLogix 5000 interface. The Controller Organizer on the left shows the project structure. The main window displays a ladder logic diagram with a 'Start' tag. The 'Tag Properties - Start' dialog is open, showing the following configuration:

- Name: Start
- Description:
- Type: Alias
- Alias For: Local:1:I:Data
- Data Type: INT
- Scope: Local:1:I:Data
- Style: 0

Name	Data Type	Description
Local:1:1	AB:1769_DIH...	
Local:1:1:Fault	DINT	
Local:1:1:Data	INT	
Local:2:0	AB:1769_DU...	
Run	BOOL	
Start	BOOL	
Stop	BOOL	

The screenshot shows the RSLogix 5000 interface. The Controller Organizer on the left shows the project structure. The main window displays a ladder logic diagram with a 'Stop' tag. The 'Tag Properties - Stop' dialog is open, showing the following configuration:

- Name: Stop
- Description:
- Type: Alias
- Alias For: Local:1:I:Data
- Data Type: INT
- Scope: Local:1:I:Data
- Style: 0

Name	Data Type	Description
Local:1:1	AB:1769_DIH...	
Local:1:1:Fault	DINT	
Local:1:1:Data	INT	
Local:2:0	AB:1769_DU...	
Run	BOOL	
Start	BOOL	
Stop	BOOL	

Programming in CompactLogix 1769-L32E

The screenshot shows the RSLogix 5000 software interface. The Controller Organizer on the left displays a project structure for '1769-L32E Simply_OnOff'. The main workspace shows a ladder logic diagram with a single rung containing a 'Run' coil. A 'Tag Properties - Run' dialog box is open, showing the following details:

- Name: Run
- Description: (empty)
- Type: Alias
- Alias For: Local:2:0 Data
- Data Type: Local:2:0 Data
- Scope: Local:2:0 Data
- External Access: (empty)
- Style: (empty)
- Constant:

Name	Data Type	Description
Local:1:1	AB:1769_DI1...	
Local:2:C	AB:1769_DO...	
Local:2:I	AB:1769_DO...	
Local:2:O	AB:1769_DO...	

The dialog also includes a table for bit settings:

Bit	Used	Used: N	Bool	Bool
0		N		
1		N		
2		N		
3		N		
4		N		
5		N		
6		N		
7		N		

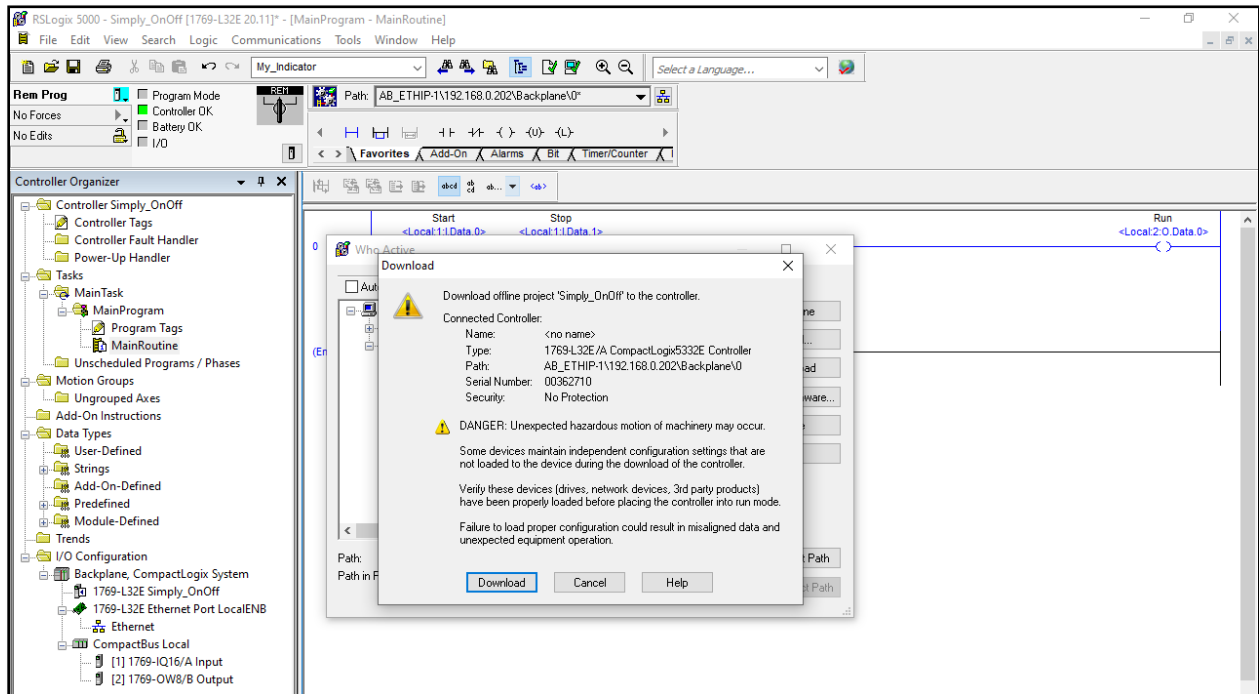
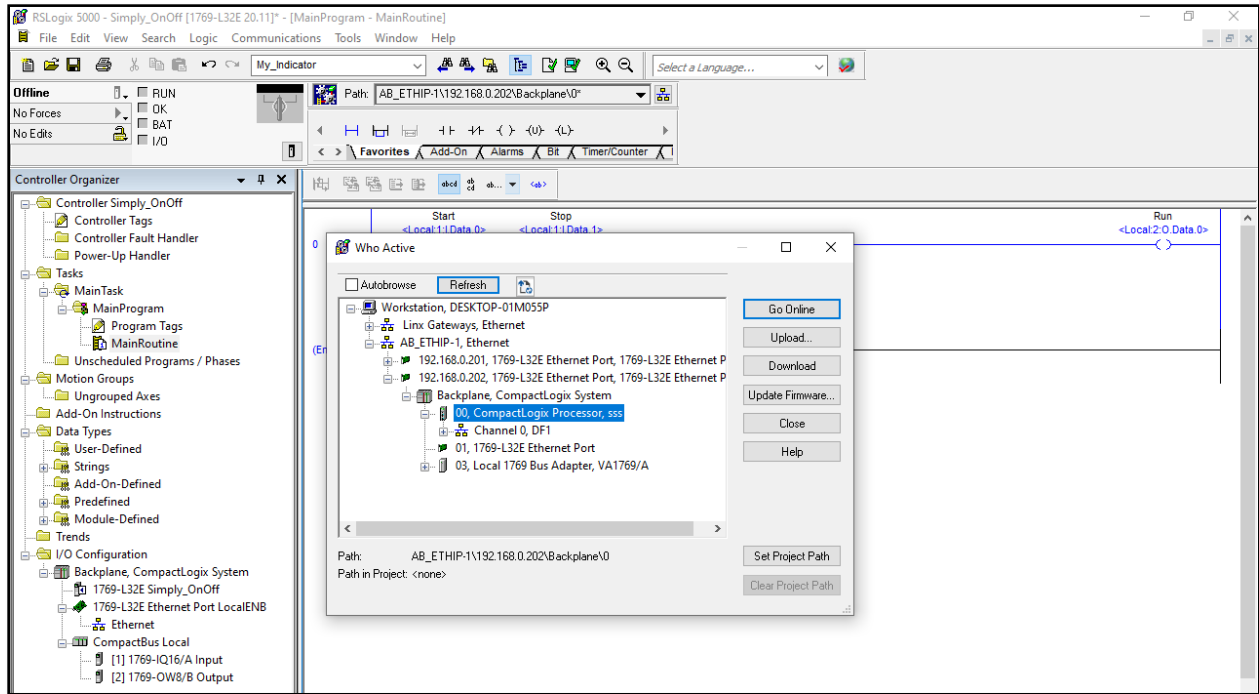
The screenshot shows the RSLogix 5000 software interface with a completed ladder logic diagram. The diagram consists of a single rung with the following components:

- Start: <Local:1:1.Data:0>
- Stop: <Local:1:1.Data:1>
- Run: <Local:2:0.Data:0>

The diagram is shown in a 'Run' state, with the 'Run' coil highlighted in green. The Controller Organizer on the left shows the same project structure as the previous screenshot.

Programming in CompactLogix 1769-L32E

Select the **Communication-WhoActive** and **Download** the Ladder Program.



Programming in CompactLogix 1769-L32E

For normal simulation to see simply ladder logic work then click "NoForce then click Enable all Forces" and run the program in online mode "Run" or "Rem" not in Prog. But if required practically you can give 24 voltage in input module of PLC with wiring output module then you can run PLC in "Prog" mode.

The screenshot shows the RSLogix 5000 software interface. The 'I/O Forcing' menu is open, with 'Enable All I/O Forces' selected. The main workspace displays a ladder logic diagram with three rungs: 'Start' (Local I:Data.0), 'Stop' (Local I:Data.1), and 'Run' (Local O:Data.0). The 'Errors' window at the bottom shows the following text:

```
Download all Tasks...
Download task 'MainTask'
Download Security Configuration...
Download Controller attributes...
Linking all Routines...
Linking routine 'MainRoutine' of program 'MainProgram'
Reading ChangeLog...
Complete - 0 error(s), 1 warning(s)
```

Always there should be '0' errors then only the PLC program runs smoothly.

This is a close-up view of the 'Errors' window in RSLogix 5000. The error log contains the following text:

```
Download all Tasks...
Download task 'MainTask'
Download Security Configuration...
Download Controller attributes...
Linking all Routines...
Linking routine 'MainRoutine' of program 'MainProgram'
Reading ChangeLog...
Complete - 0 error(s), 1 warning(s)
```

Thanks