IL / FBD / LD

CoDeSys

IL / FBD / LD

Working with the classic languages of the IEC 61131-3 in CoDeSys

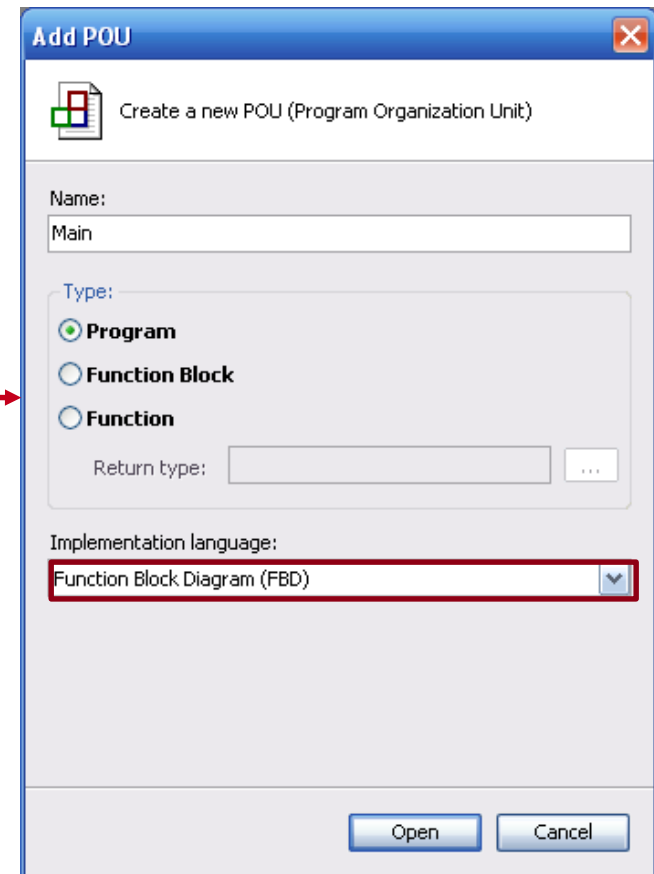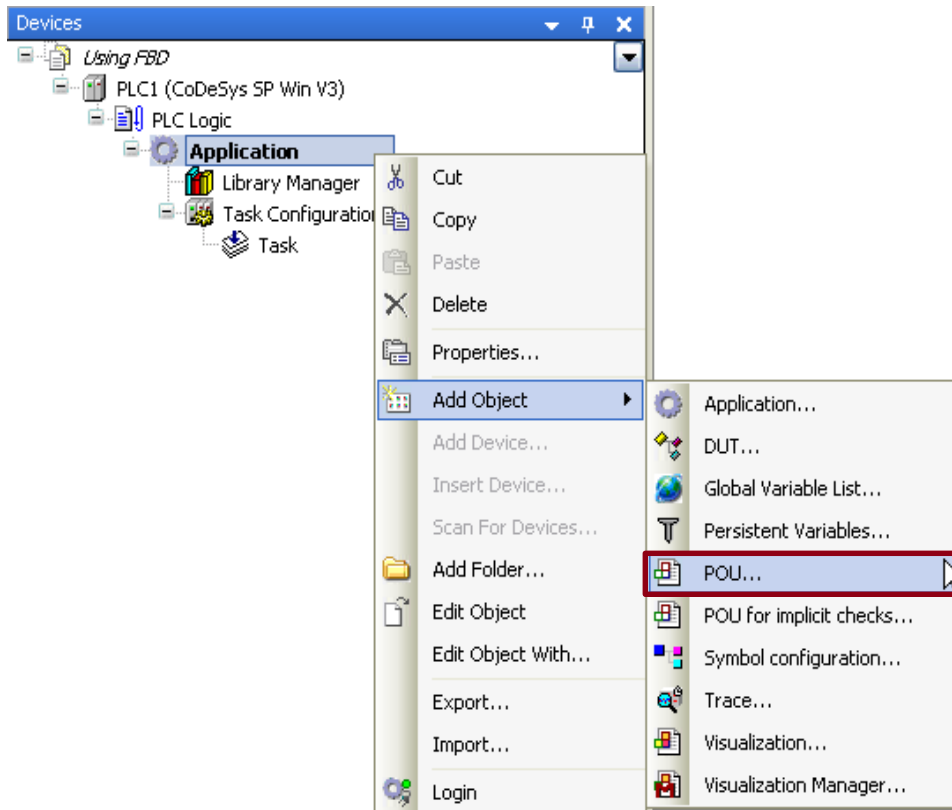We software Automation.

Introduction

After this module you will be able to create POUs in IL, FBD and LD in CoDeSys.
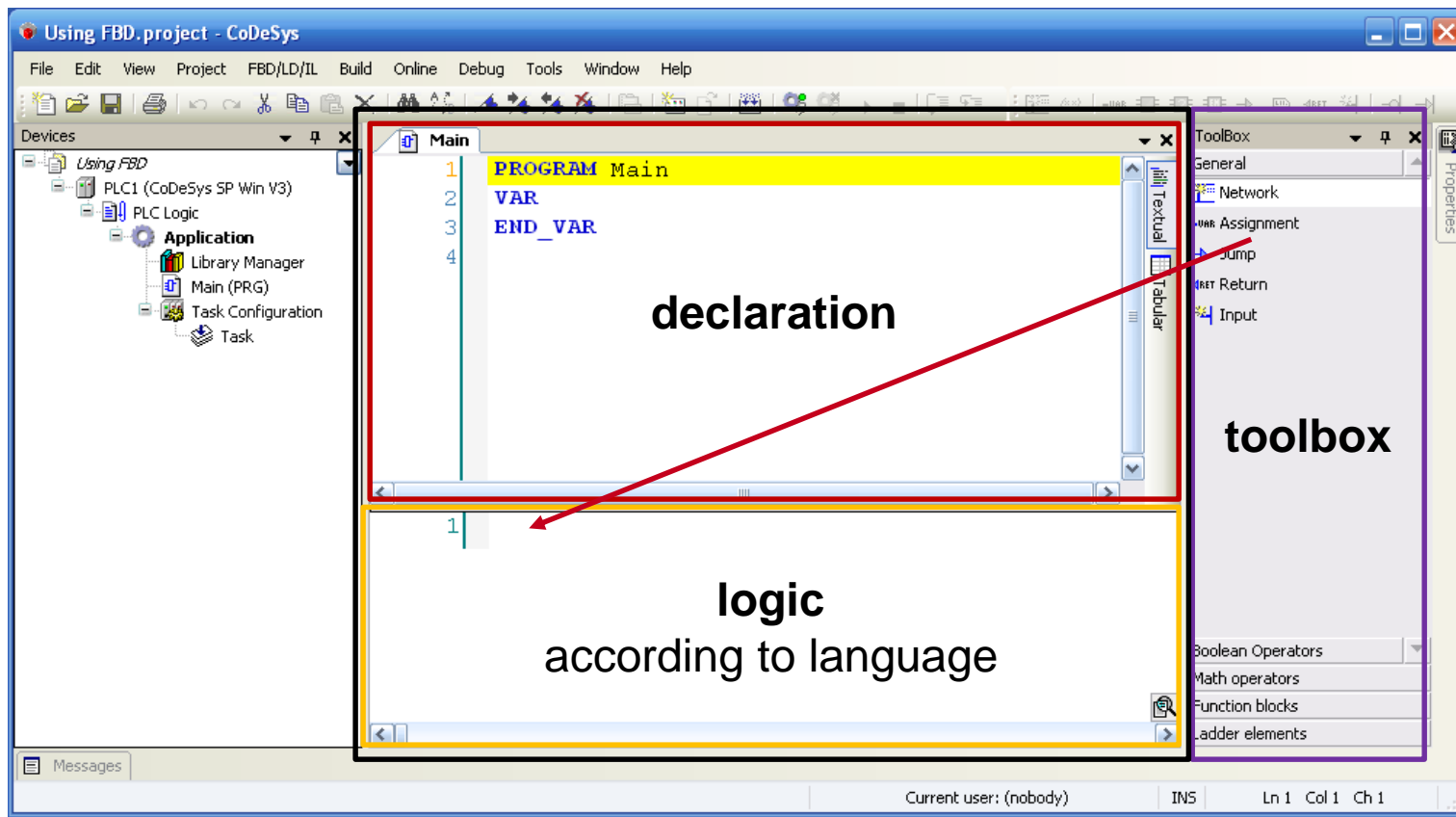
- **general**
  - editor
    - declaration
      - free text mode
      - tabular mode
    - instructions
      - toolbox

- **overview classic languages**

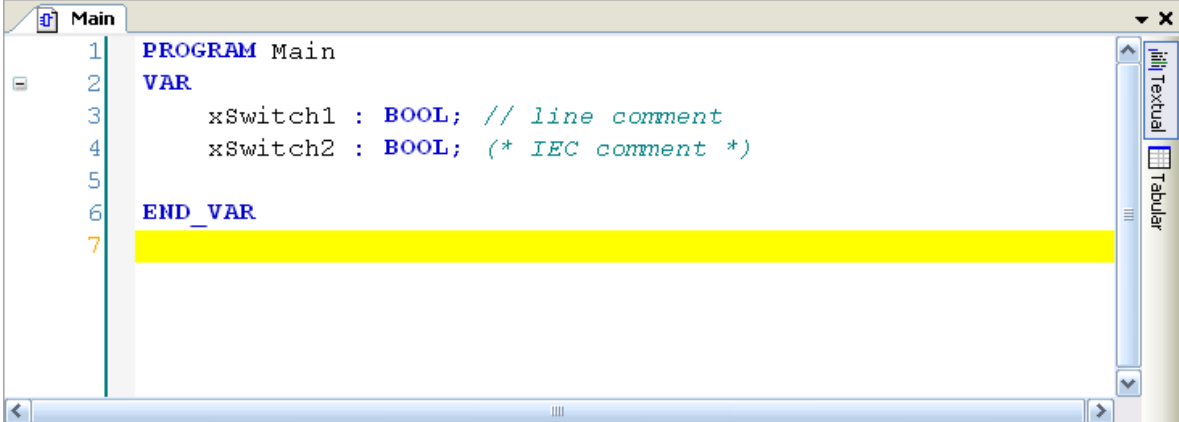# Add POU and select preferred language
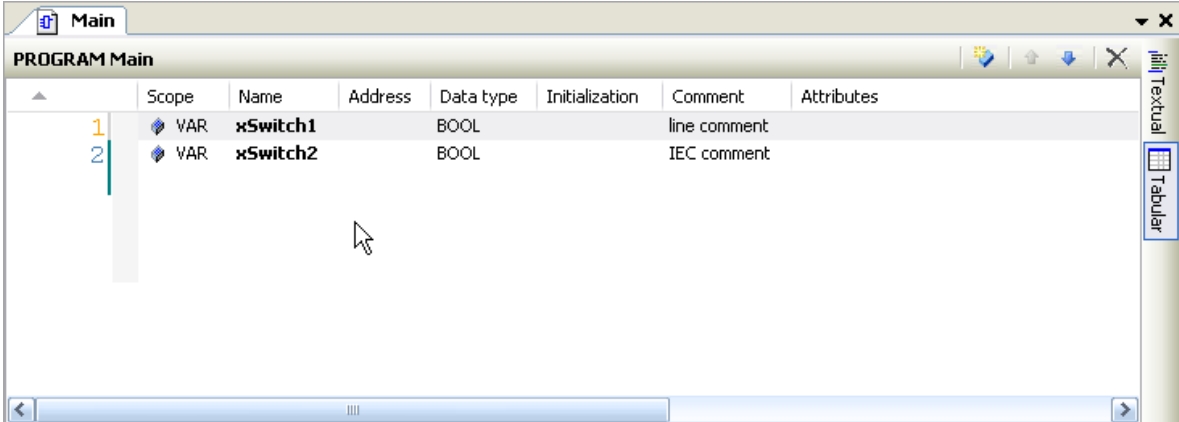
View

declaration

toolbox

logic
according to language

Declaration

- **textual**

- **tabular**
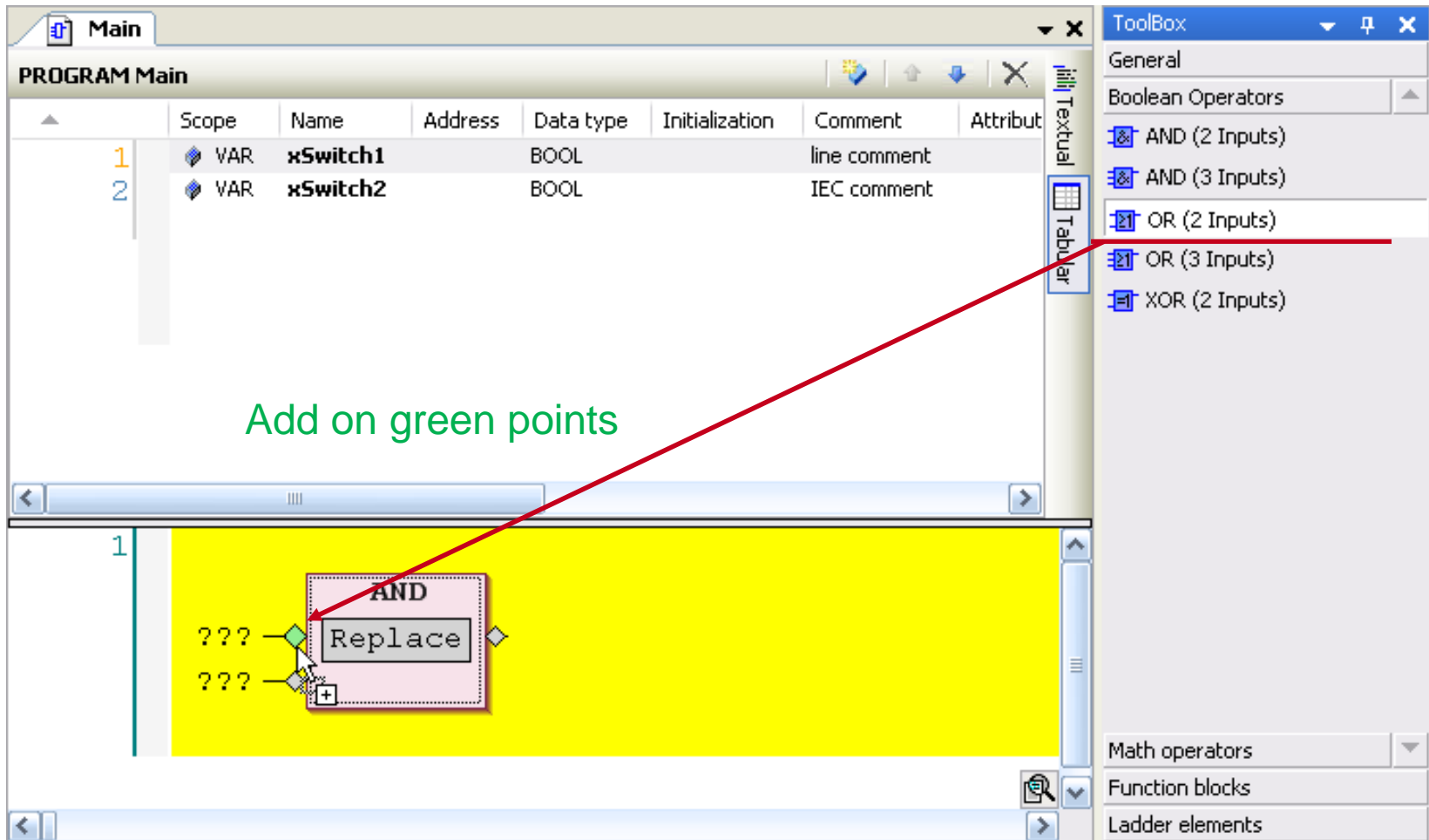
Use toolbox to add logic

hold mouse button
to add operators

Use toolbox to add logic

Add on green points

Use input assistant to assign variables
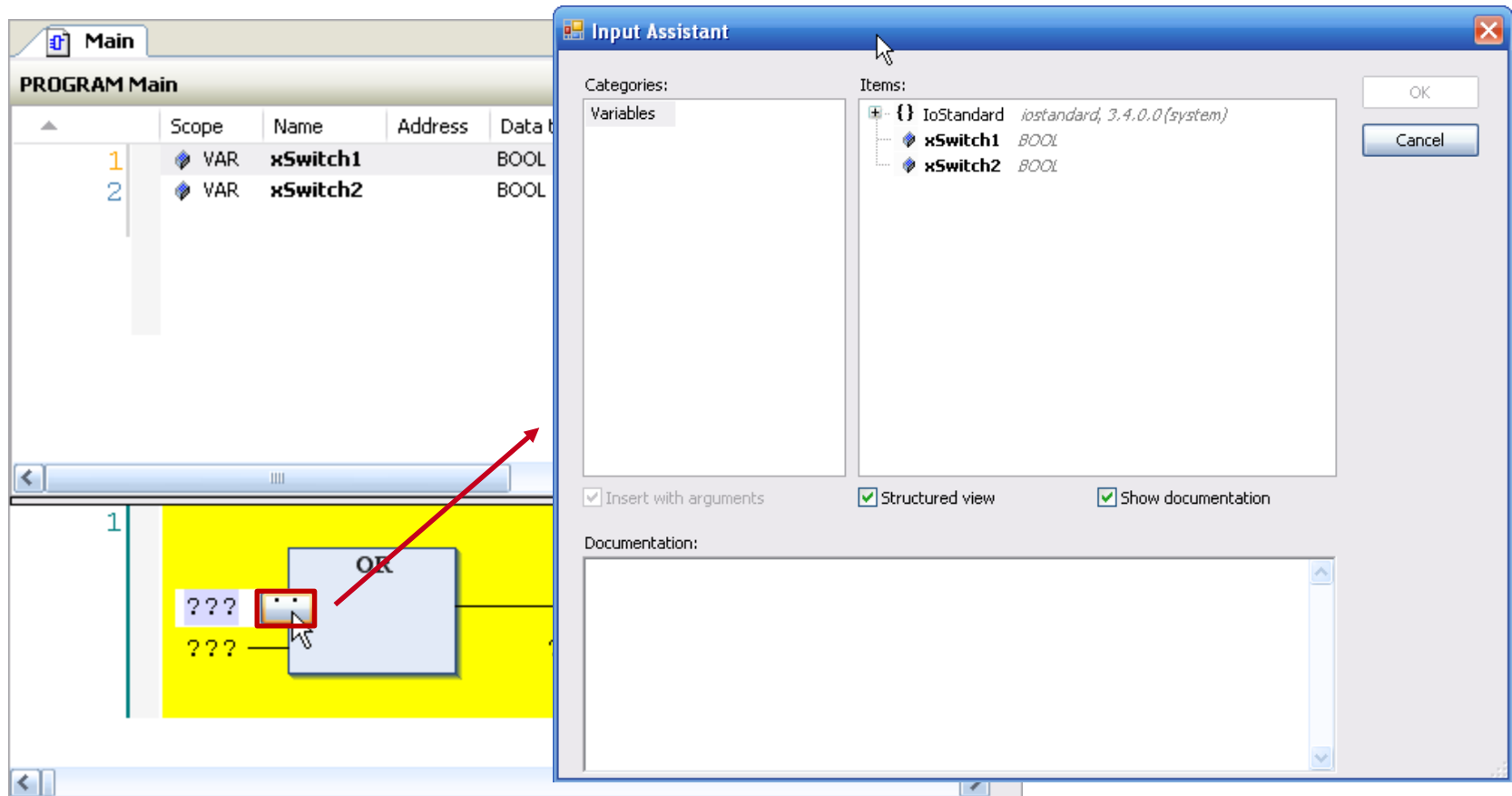
Use auto declare to add new variables

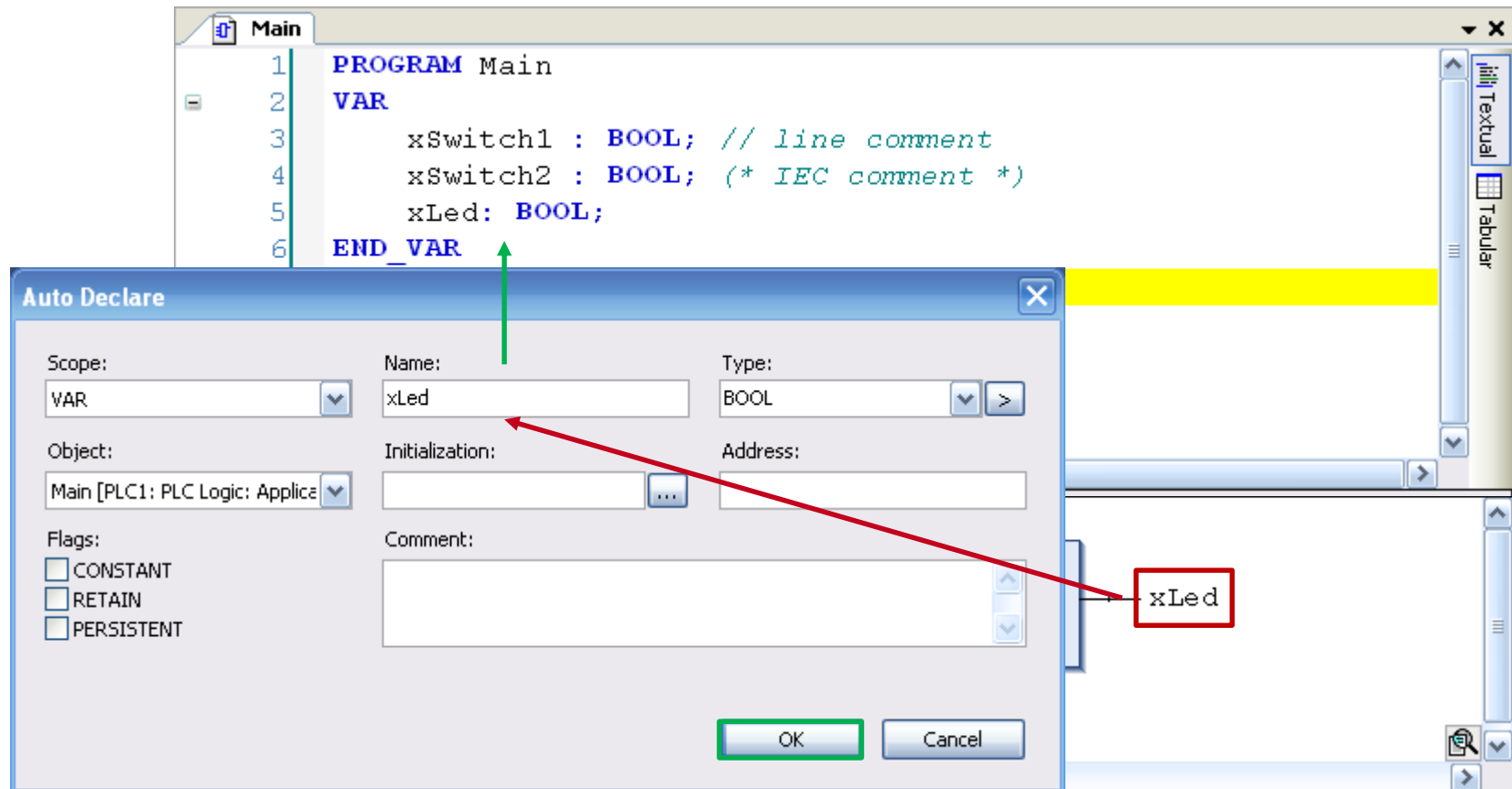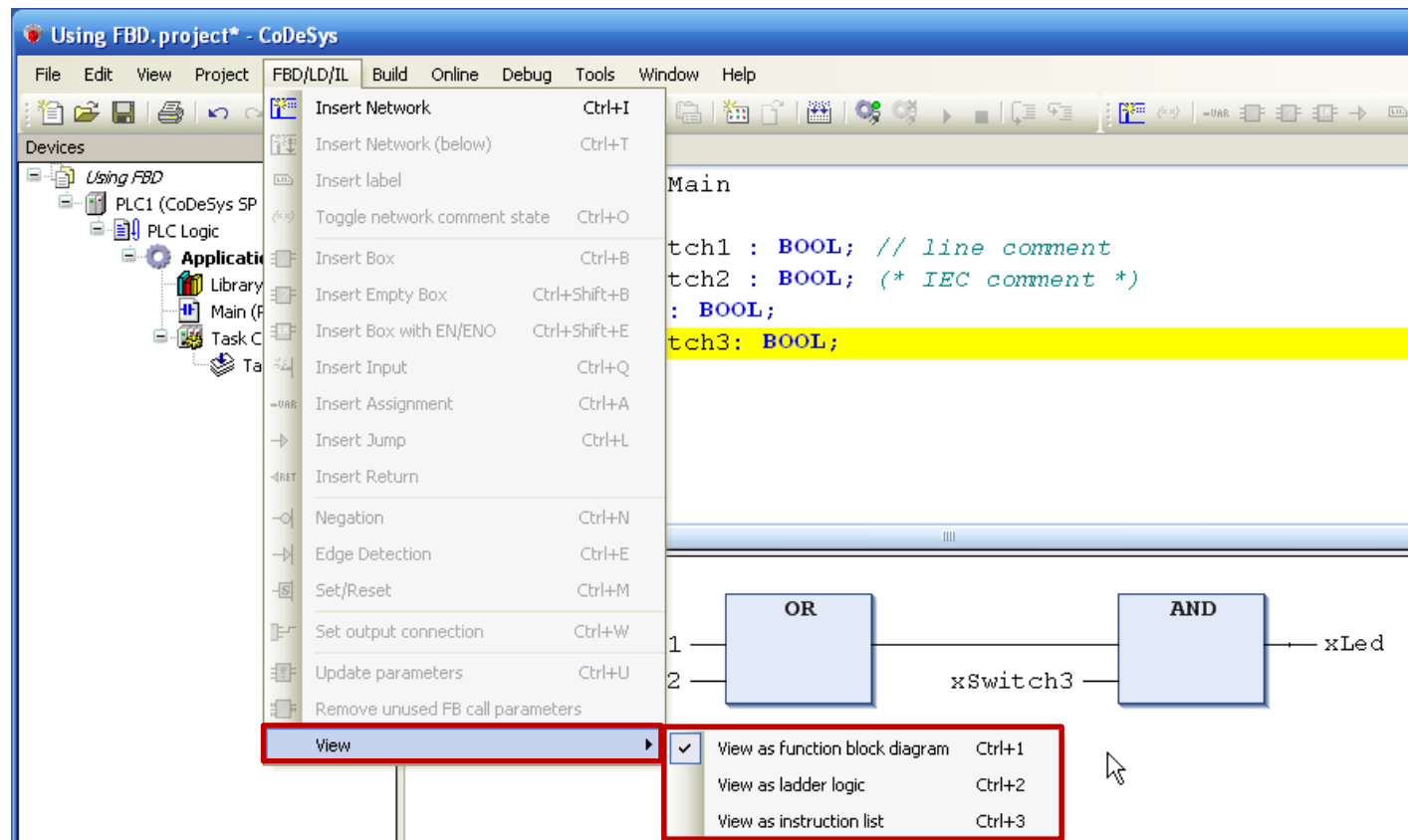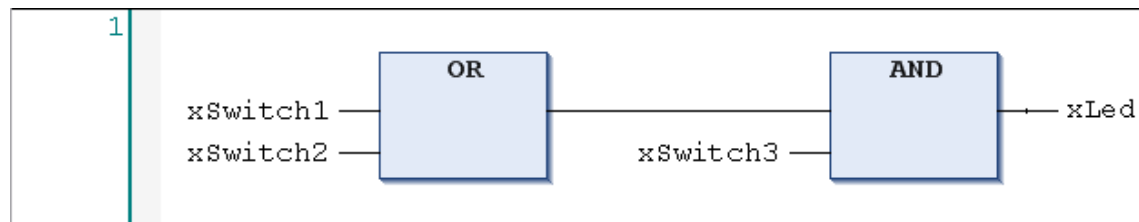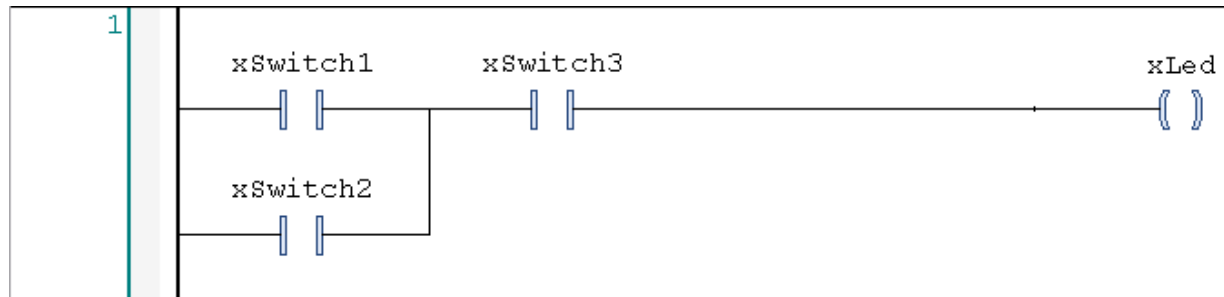# Switch language between IL, FBD and LD

Overview classic languages

View as function block diagram   Ctrl+1

View as ladder logic   Ctrl+2

View as instruction list   Ctrl+3

1	LD	xSwitch1
	OR	xSwitch2
	AND	xSwitch3
	ST	xLed

Summary

- In IL, FBD and LD variables are declared in the same way.
  - You can choose between the textual and the tabular mode.
  - What is more, you can type in unknown variable names and the auto declare assistant is opened automatically.
- Depending on the selected language the toolbox will offer different elements
  - Green markers indicate where an element can be inserted
- In classic languages it is very easy to change the POU view