

Communication with

HCFA HCQ1 series

V1.0



**Website:** <http://www.we-con.com.cn/en>

**Phone:** 86-591-8786886

**Overview**

This document introduces the free label protocol steps for PI3070ig and HCFA HCQ1-1300-D, which is divided into two parts:

⚫ Software Configurations of PLC

⚫ Software Configurations of HMI

**I Software Configurations of PLC**

**1.1 CODESYS**

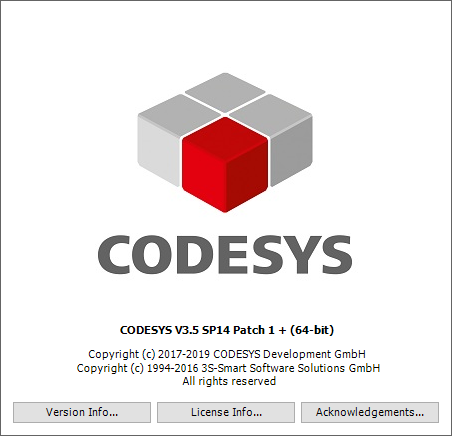


Figure 1-1

**1.2 New project**

1.Click [New Project...]→ Select PLC Templates→Edit project name→ Select file storage location→[OK].

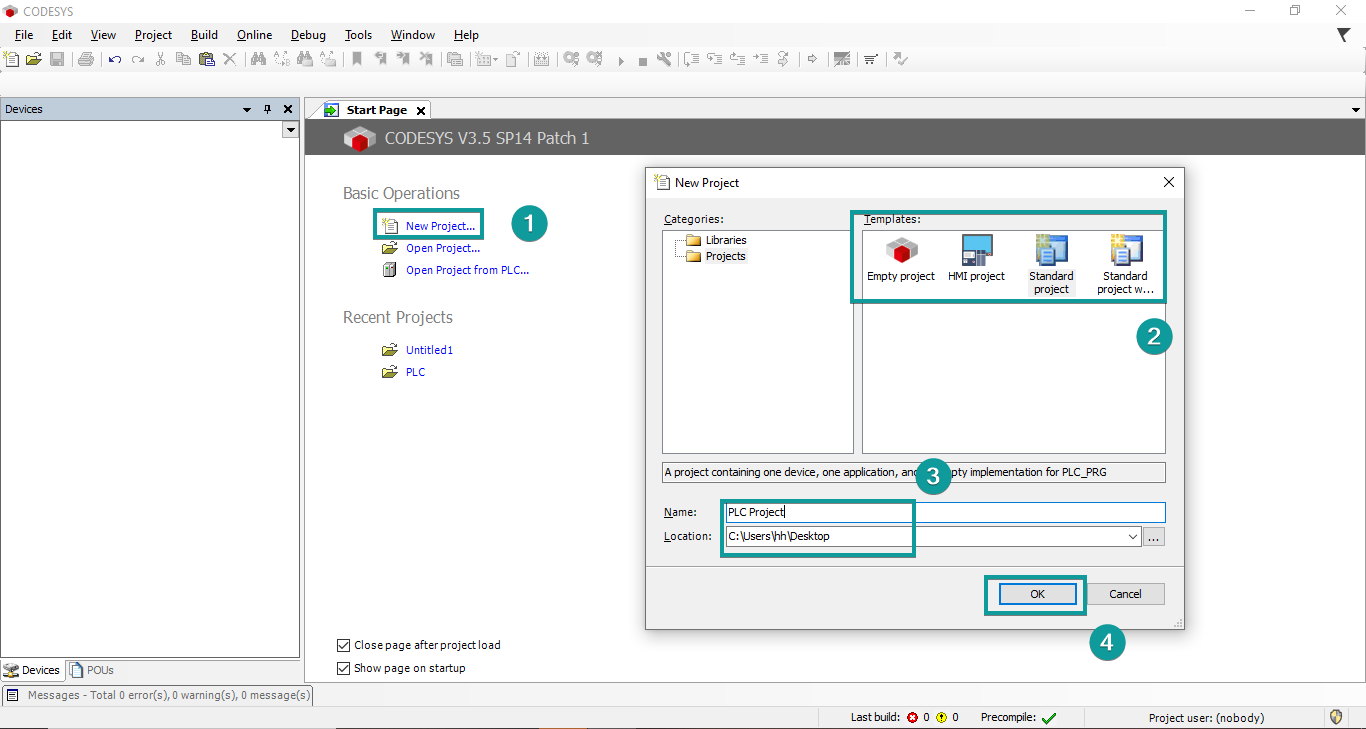


Figure 1-2

2.Select PLC model

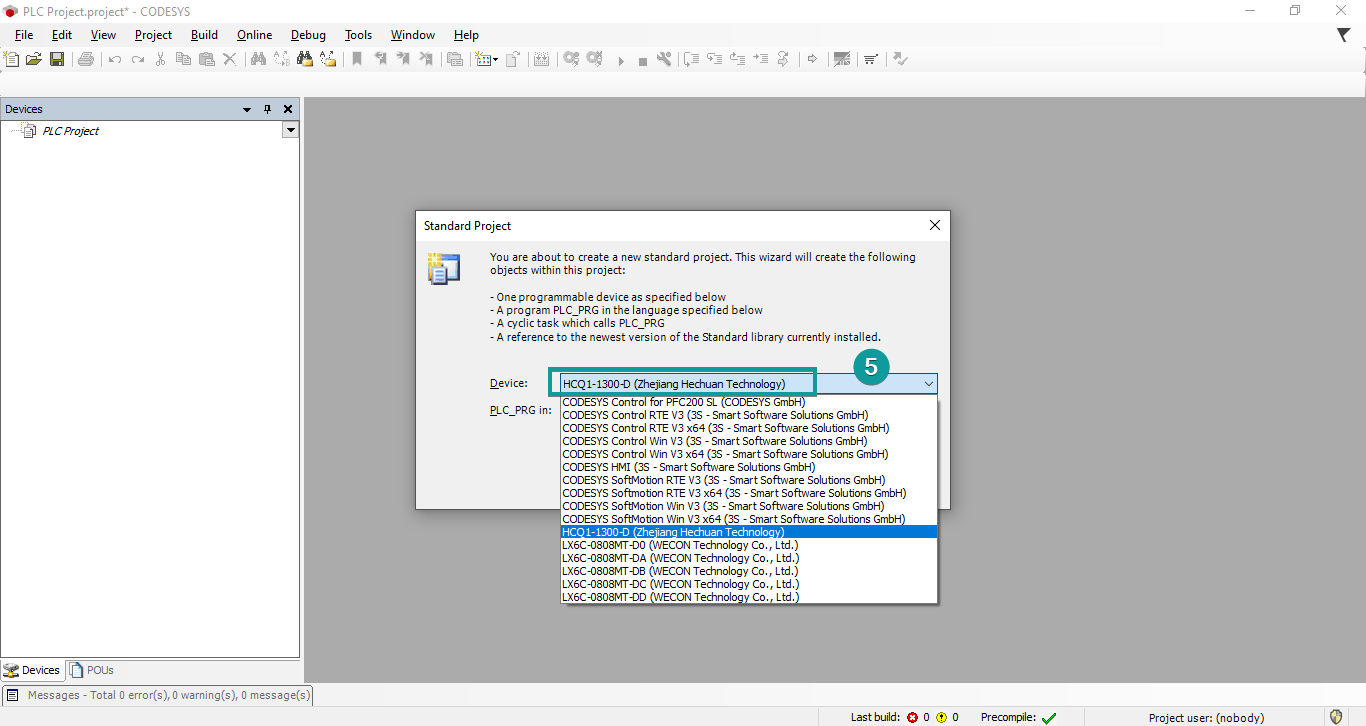


Figure 1-3

**1.3 Create a new variable**

1.Double click[PLC \_PRG (PRG)]→Add variable→Start programming

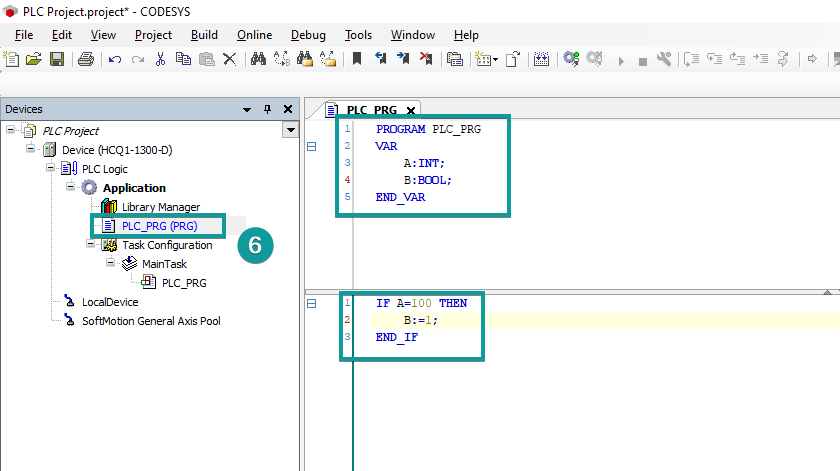


Figure 1-4

2.Right click[Application]→Add object→Symbol Configuration...

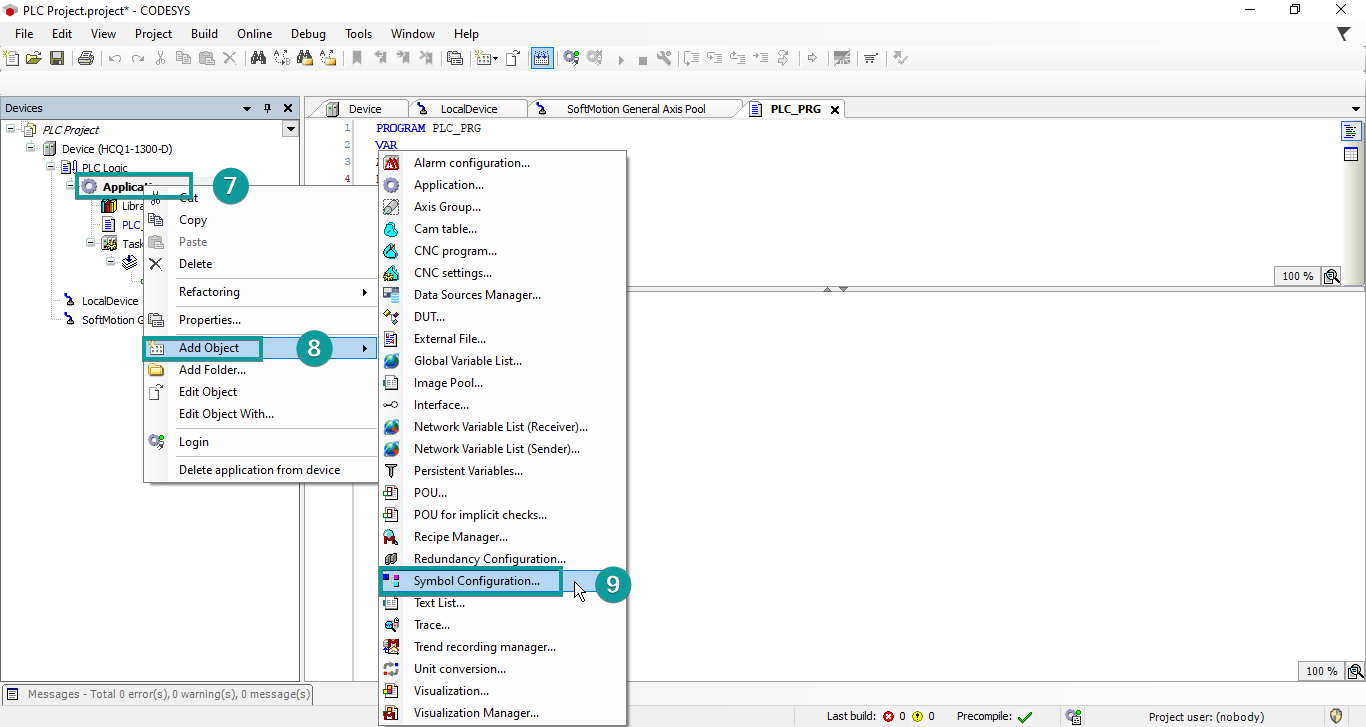


Figure 1-5

3.Pop-up window default click[Add]

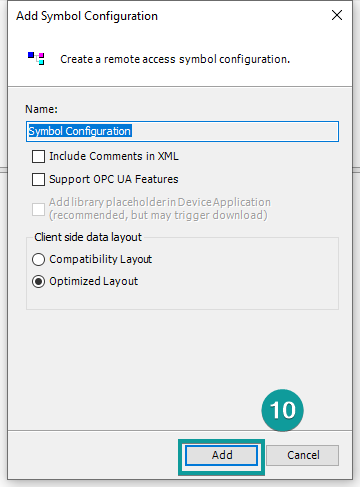


Figure 1-6

4.Click [Build].

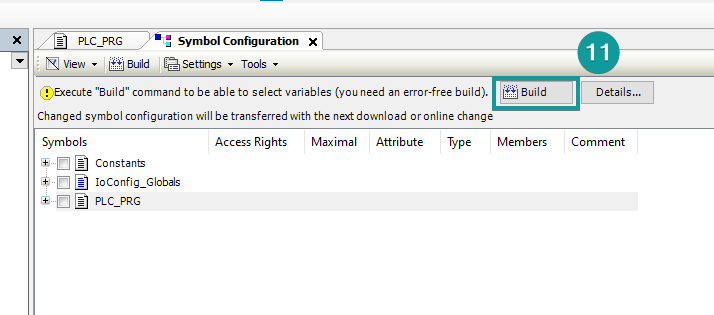


Figure 1-7

5.Click[Online]→[OK].

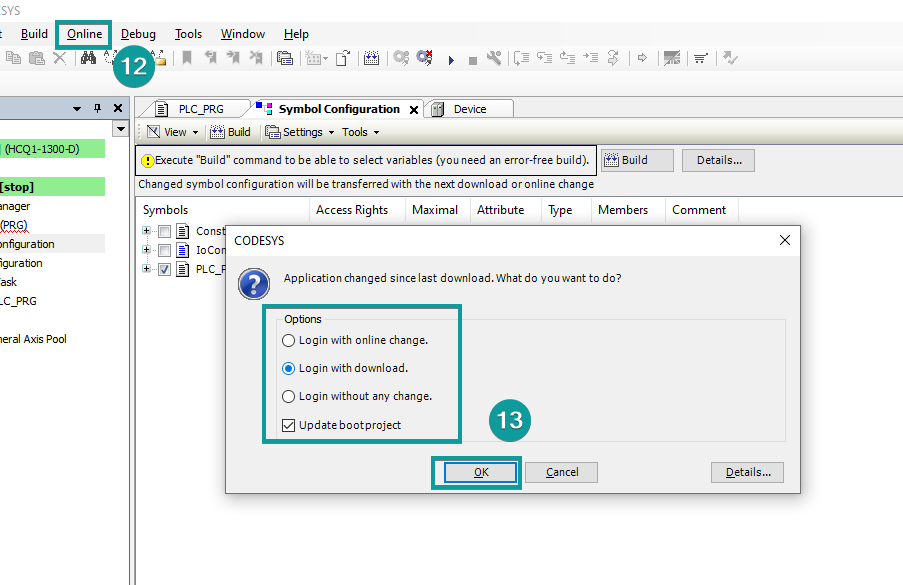


Figure 1-8

1. Click[Online]→Click [Login]

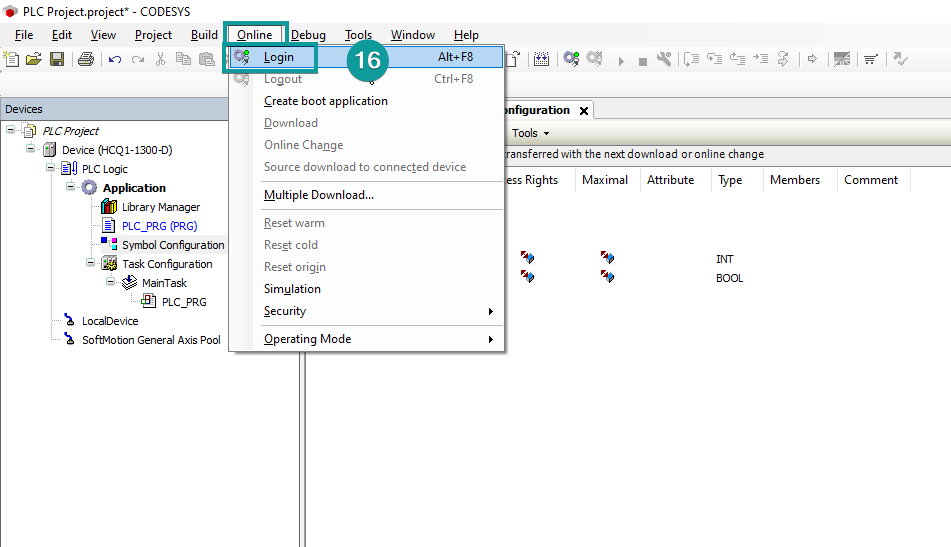


Figure 1-9

7.Pop-up window click [YES].

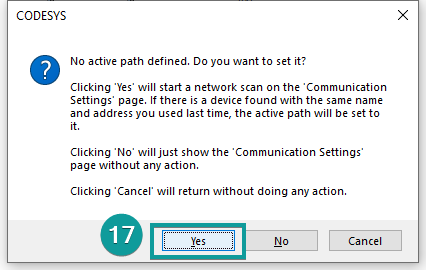
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Figure 1-10

8.Choose your device→Click [OK]

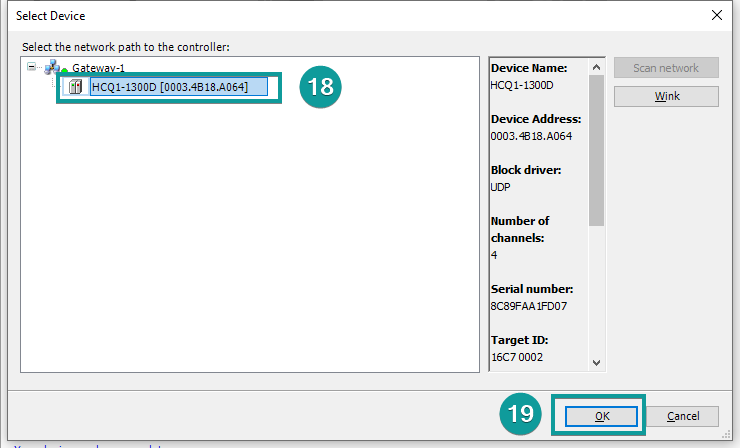
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Figure 1-11

**II Software Configurations of HMI**

**2.1 PIStudio**

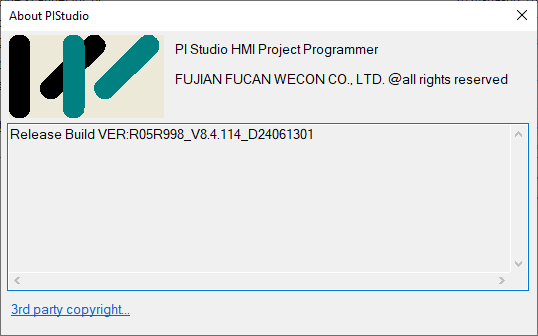
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Figure 2-1

**2.2 New project**

1.[Home]→[New]→New project→Set the name,series and model of HMI→[Next]→[Screen style] →[OK].

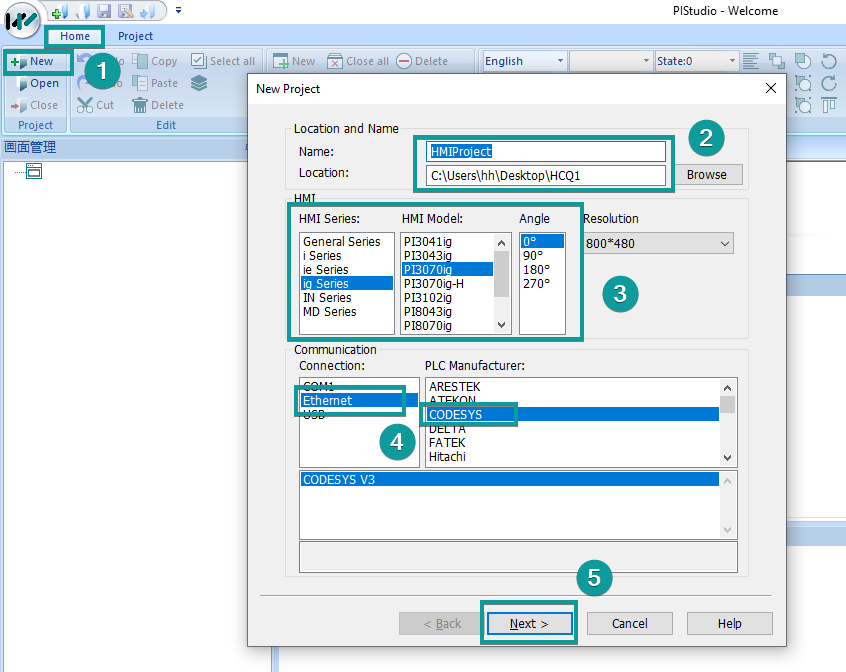


Figure 2-2

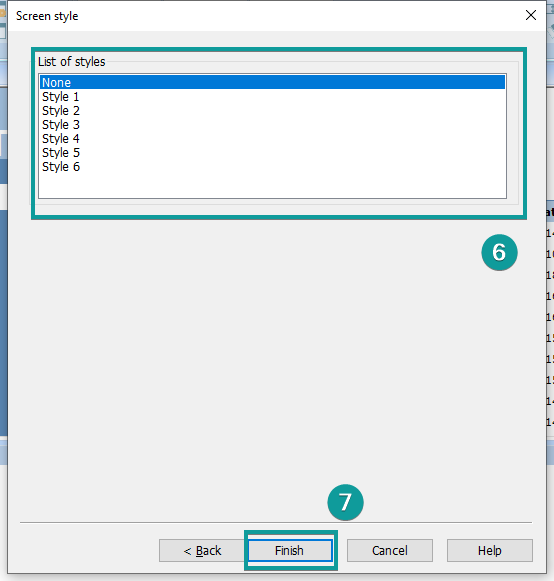


Figure 2-3

**2.3 Communication configuration**

1.[Project]→[Communication]→[Setting]→Edit PLC IP address→Click[Labels manage]→[Import Tags From File]→Choose the .XML file→[Open]→[Save]→[OK]

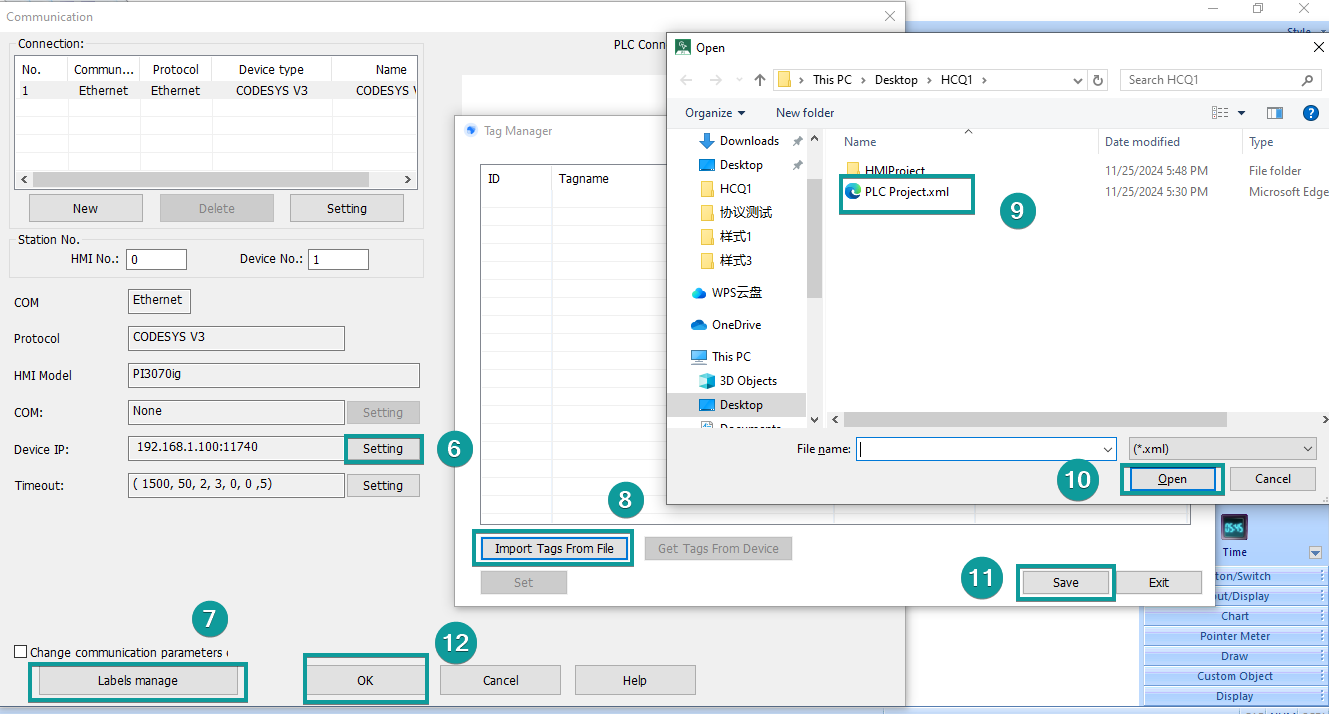


Figure 2-4

**2.4 Project making**

1.Using PIStudio to program a HMI project depending on the requirements.

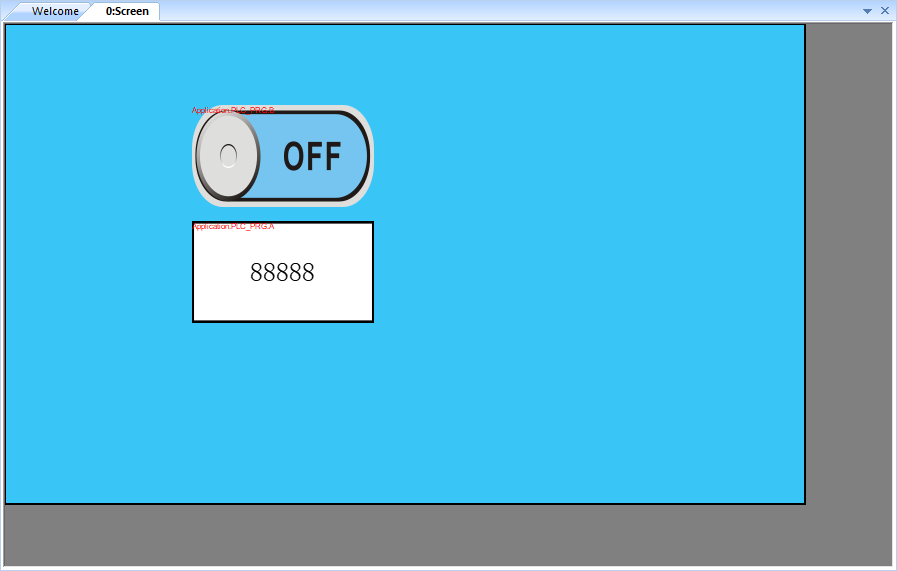


Figure 2-7