

# NuMicro<sup>®</sup> Family VS Code Quick Start Guide

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TABLE OF CONTENTS

1 INSTALLATION VS CODE AND EXTENSIONS ..... 3

2 GET STARTED WITH A SAMPLE PROJECT ..... 4

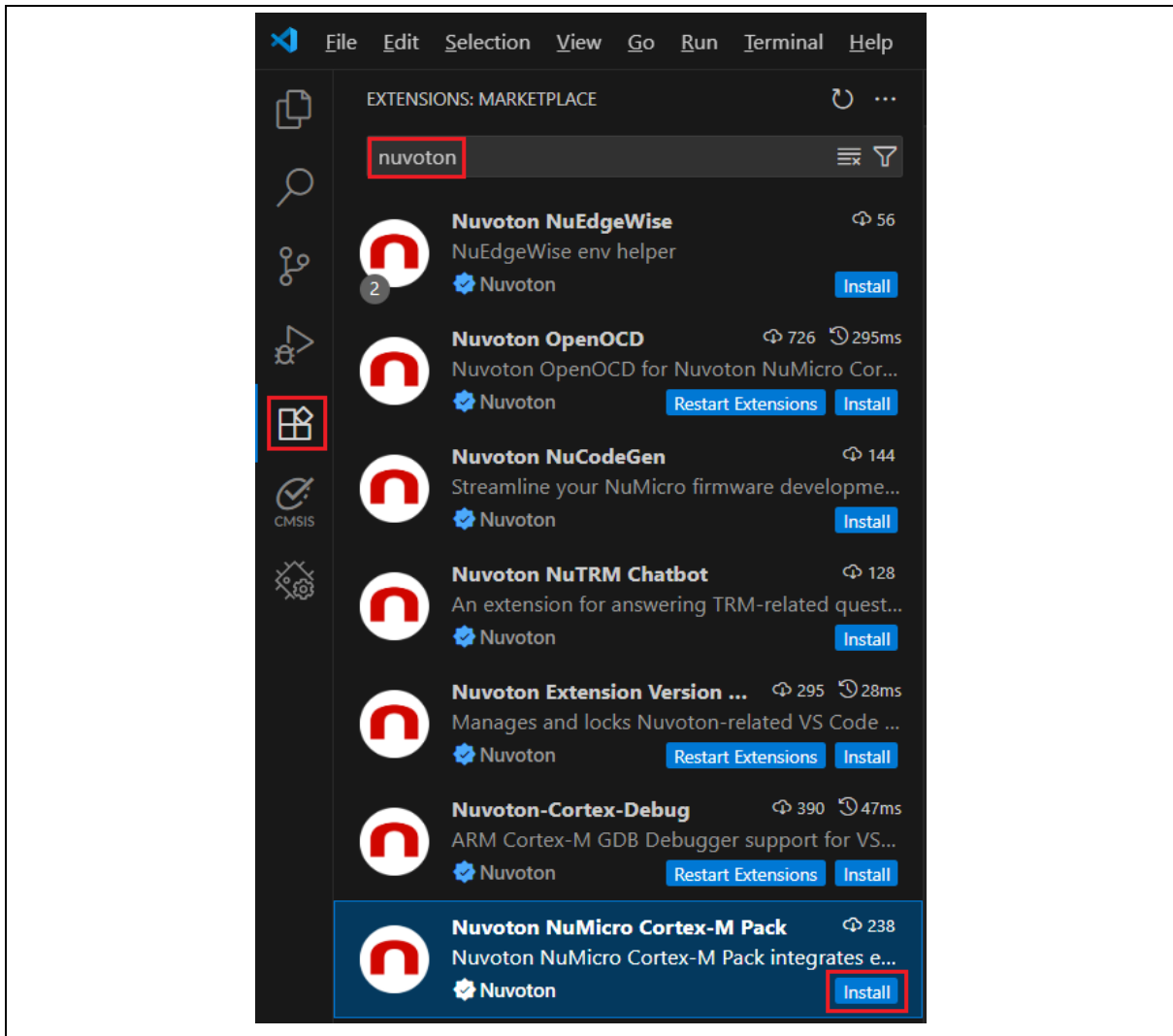
3 MANAGE ARM LICENSE ..... 7

4 CONFIGURE THE DEVICE ..... 9

5 RUN THE SAMPLE PROJECT ..... 12

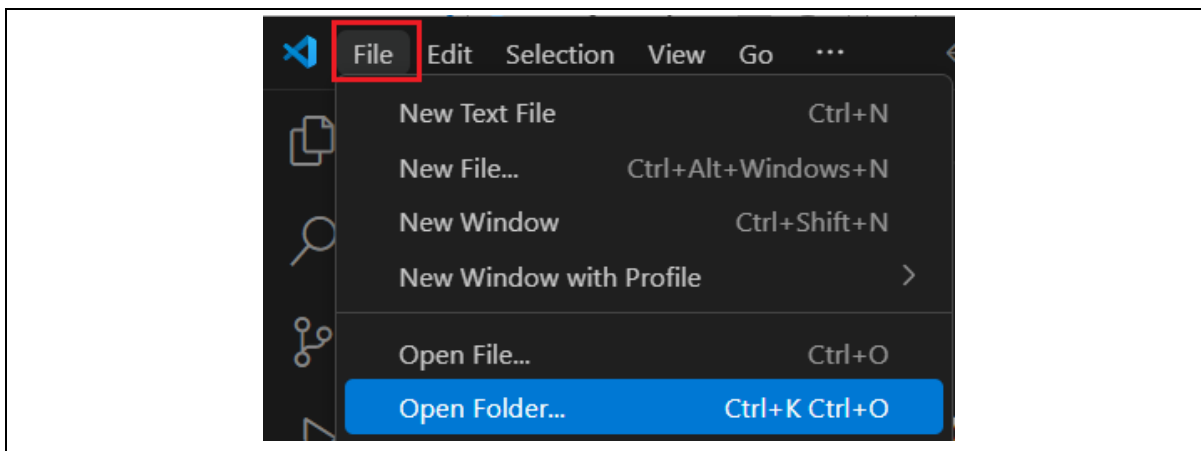
## 1 INSTALLATION VS CODE AND EXTENSIONS

1. Download VS Code from <https://code.visualstudio.com> and install it.
2. Launch VS Code and click Extensions in the Activity Bar.
3. Text “**Nuvoton NuMicro Cortex-M Pack Extension**” in search bar. Click the “**Install**” button to install.

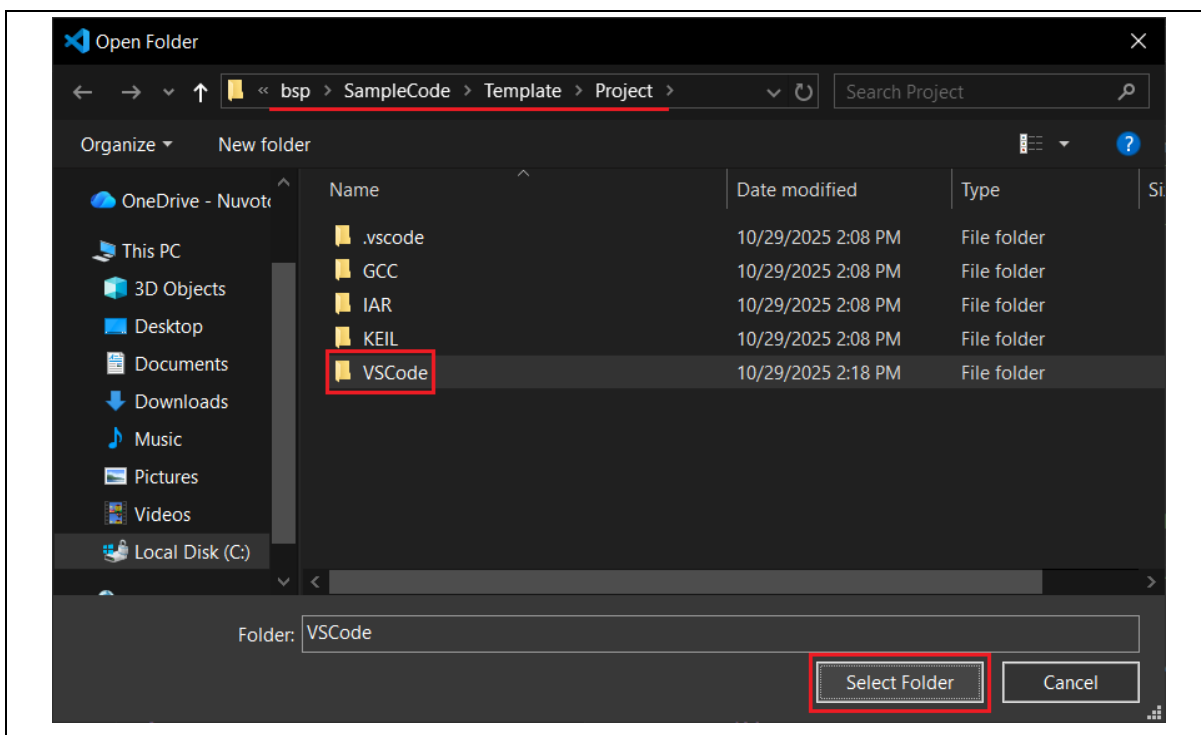


## 2 GET STARTED WITH A SAMPLE PROJECT

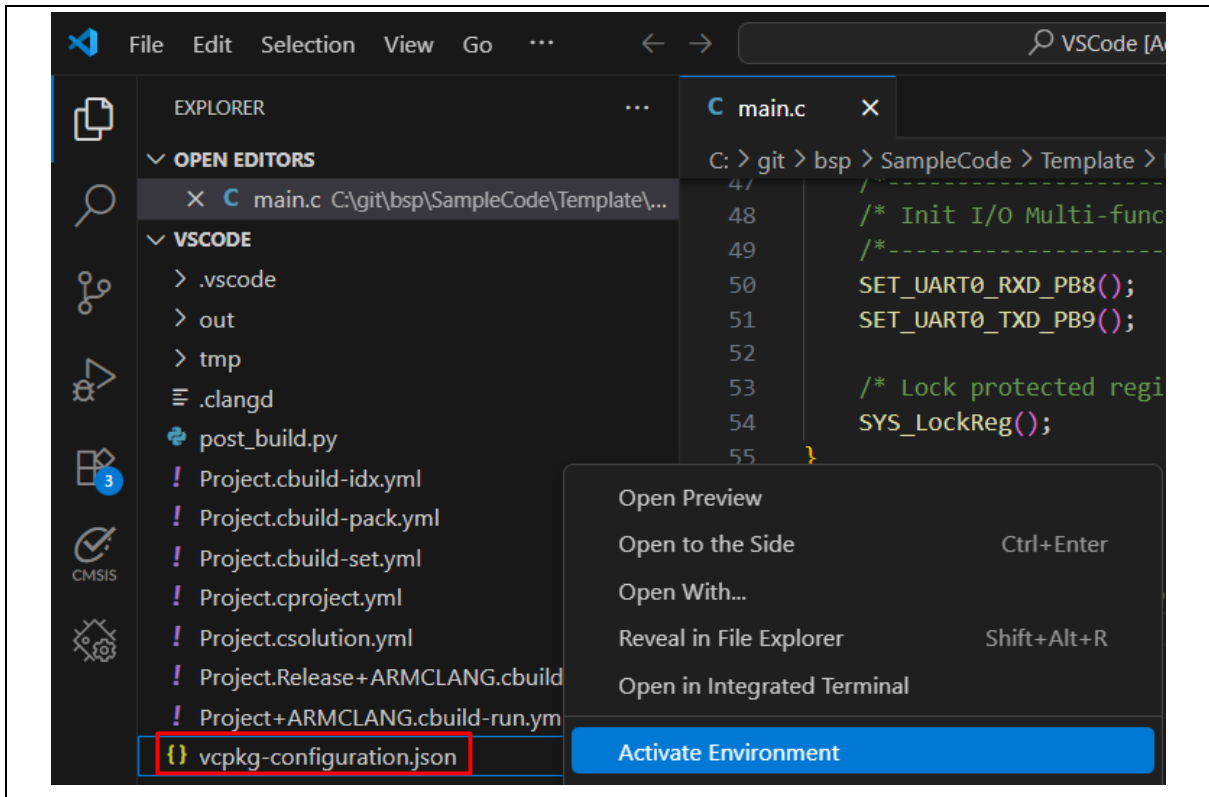
1. Click "File" menu and select "Open Folder" in the toolbar.



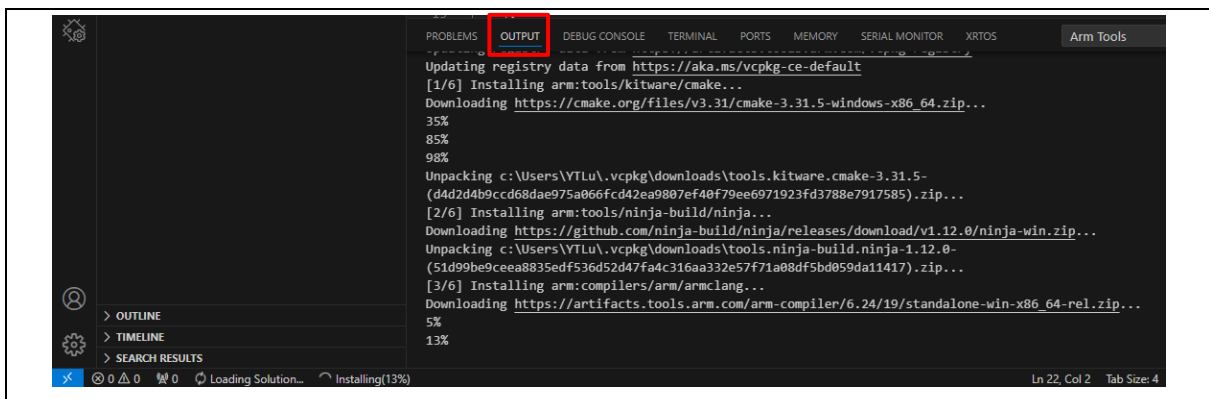
2. Select the "VSCode" folder of a sample project to open the project.



3. Right-click “**vcpkg-configuration.json**” file and select “**Activate Environment**” command. (Please use private network connection.)

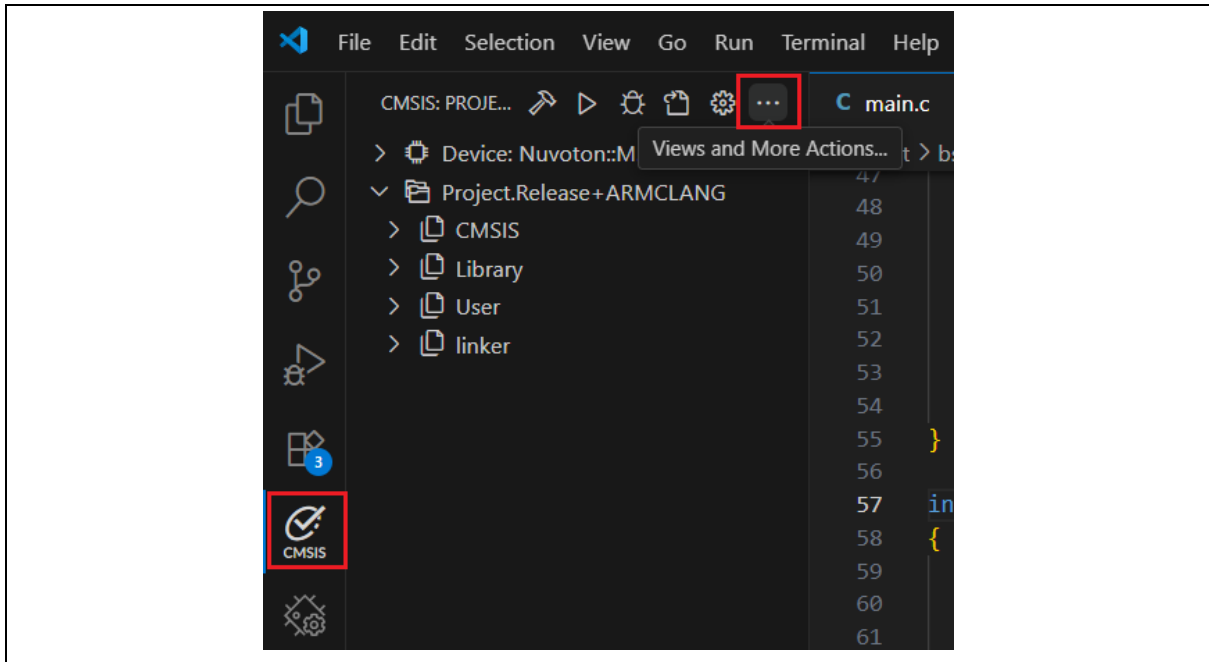


4. Check **OUTPUT** terminal at the bottom. It will download and install the requires tools.

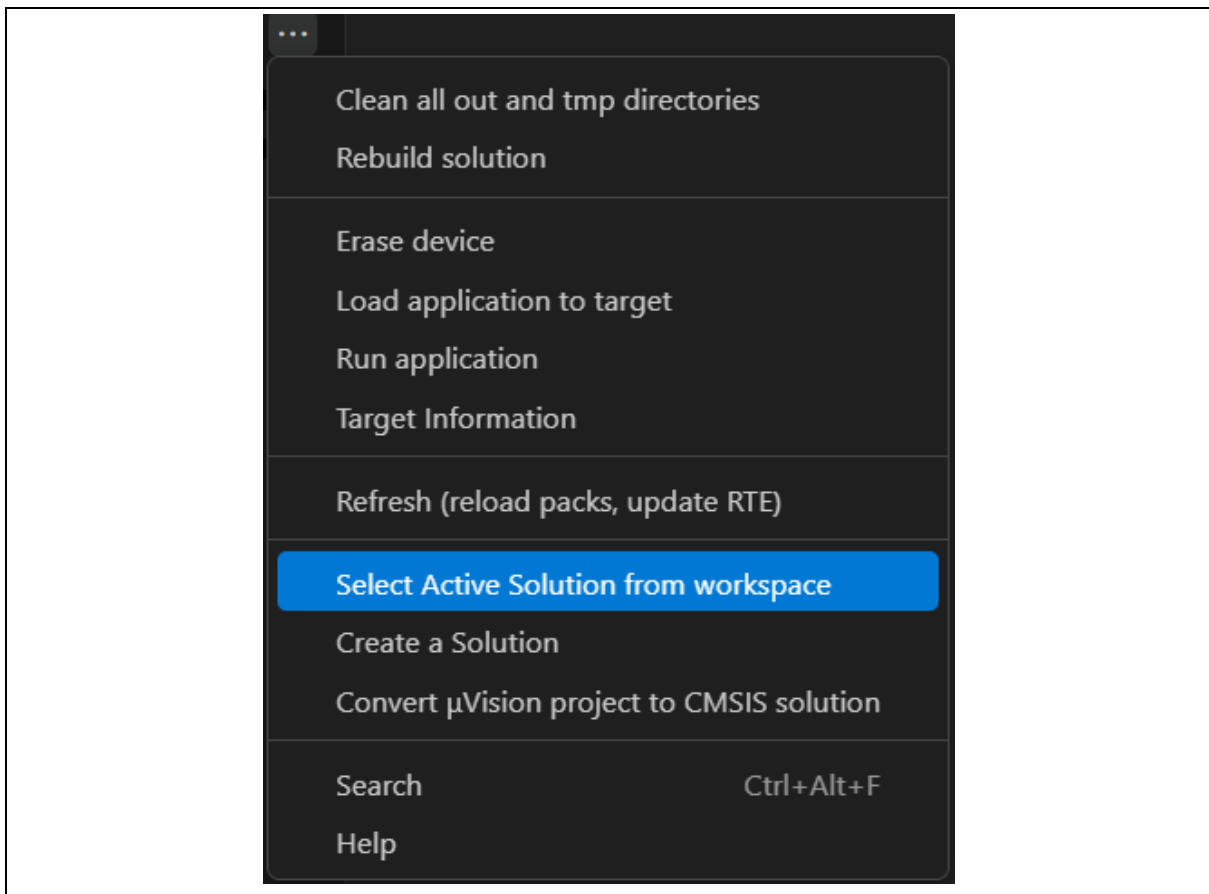


5. Click **CMSIS** icon in the Activity Bar.

Then click **“Views and More Actions...”** button.

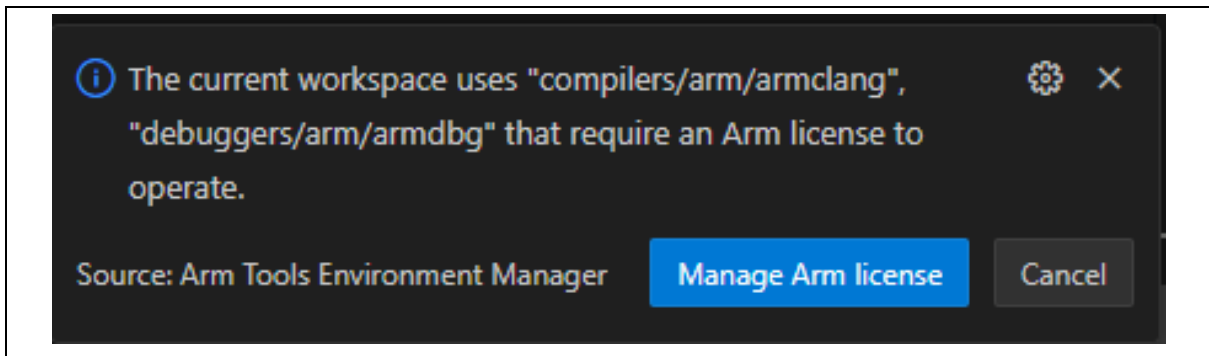


6. Select **“Select Active Solution from workspace”** command.

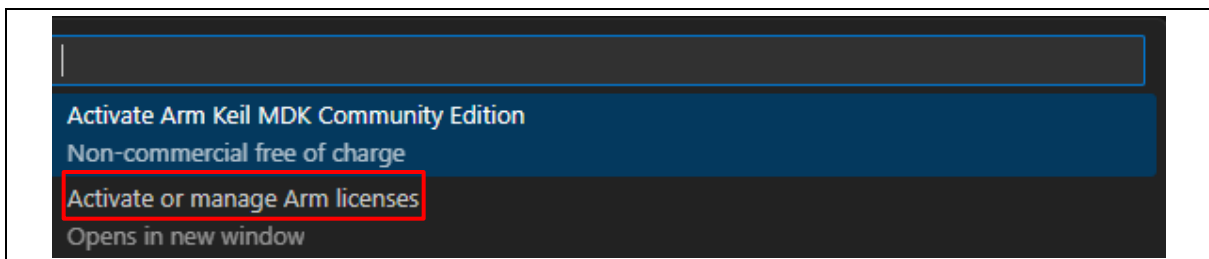


## 3 MANAGE ARM LICENSE

1. Click **"Manage Arm License"** button in the pop-up window at the bottom right.

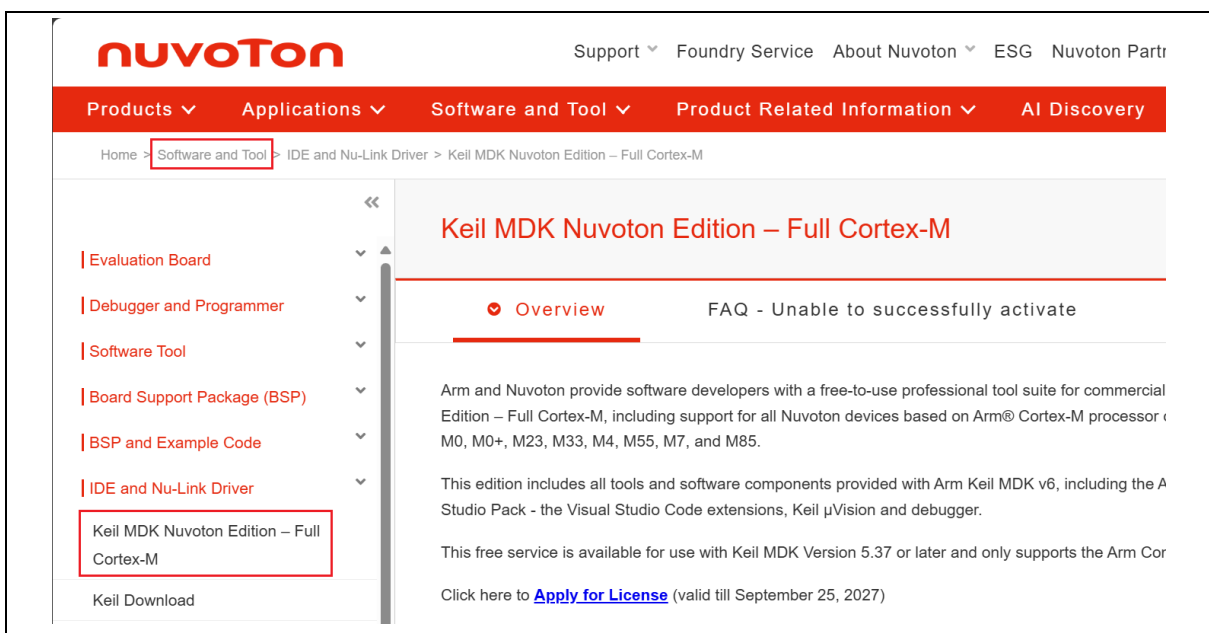


2. In the search bar at the top, select **"Activate or manage Arm licenses"** command from the available options.



3. Get Keil MDK License ID code.

- 1) Navigation to [Official Website](#).



## 2) Fill out the form.

Apply for Keil MDK Nuvoton Edition – Full Cortex-M

|                              |                       |
|------------------------------|-----------------------|
| First Name*                  | Email*                |
| <input type="text"/>         | <input type="text"/>  |
| Last Name*                   | Phone*                |
| <input type="text"/>         | <input type="text"/>  |
| Company / Organization *     | Industry              |
| <input type="text"/>         | -- Industry --        |
| Job Title *                  | Application*          |
| <input type="text"/>         | -- Application --     |
| Region / Country or region * | Series*               |
| -- Select Region --          | -- Select Line --     |
| State / Province*            | -- Select Category -- |
| <input type="text"/>         | Part No               |
| <input type="text"/>         | <input type="text"/>  |

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 NUVOTON Privacy Policy  
 Last modified: June 01, 2023

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**Submit**

Let's chat  
 +86 25 2652 1234  
 9:00am - 6:00pm (GMT+8)

## 3) Check mailbox and fill in the License Server.

Arm License Management Utility

Activate your product

Activate with: ☐ Activation Code ☒ License Server

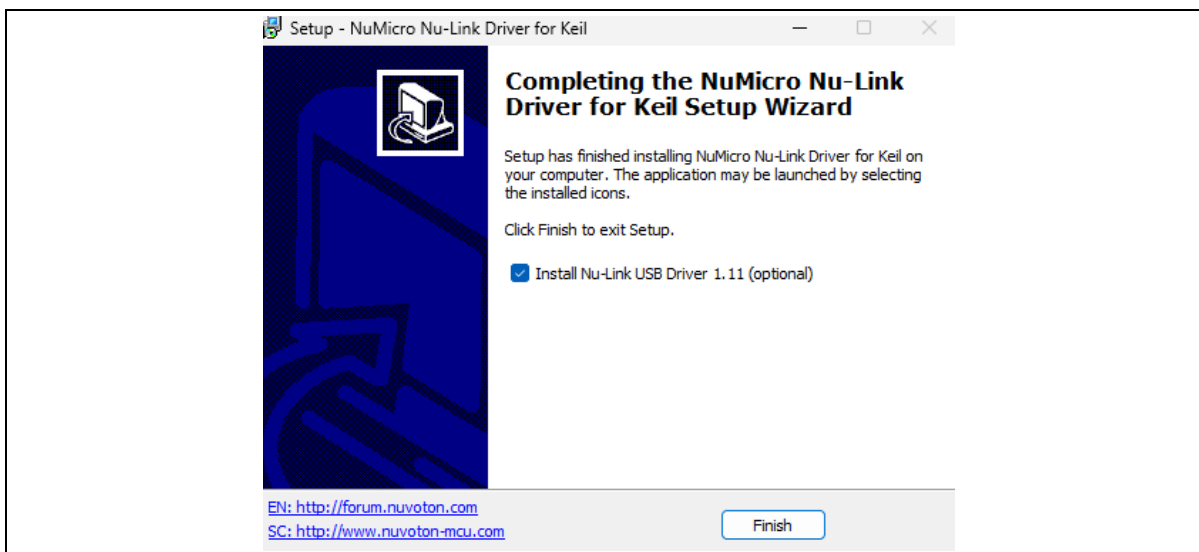
Enter your license server address:

**Query**

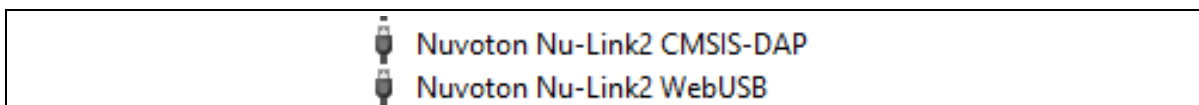


## 4 CONFIGURE THE DEVICE

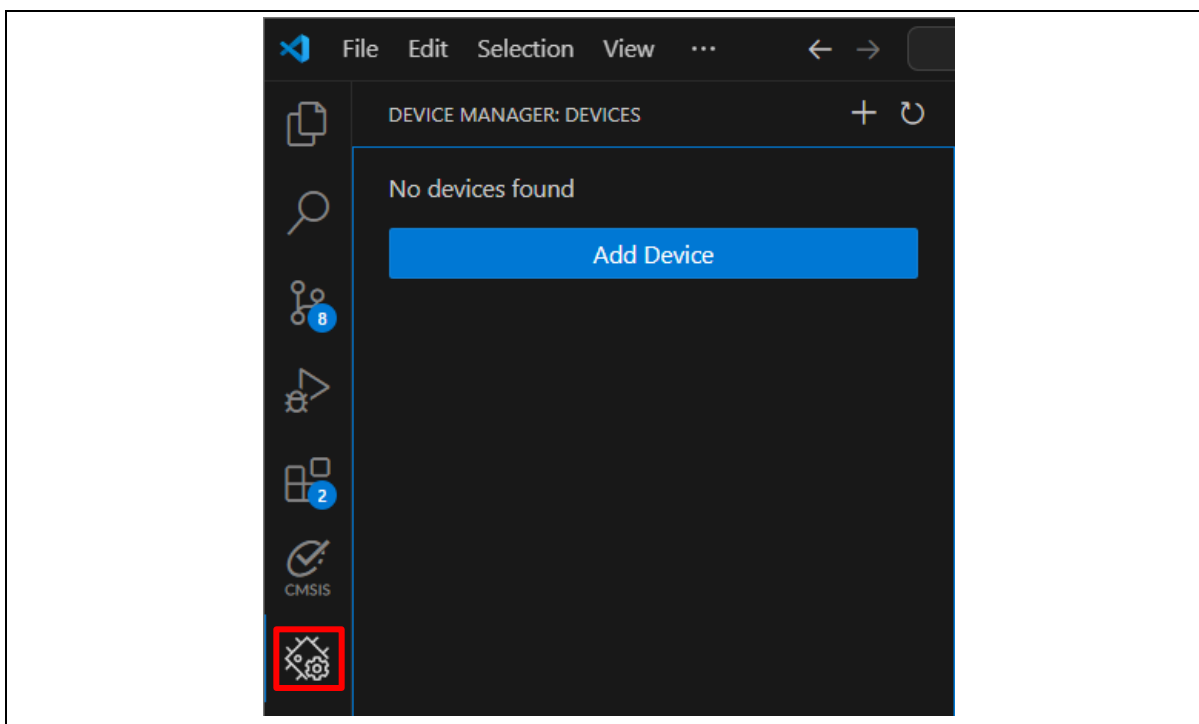
1. Install Nuvoton Nu-Link Keil Driver.
2. After installing the Keil driver, please check the box to install the Nu-Link USB Driver.



3. Installation complete in Windows Device Manager.



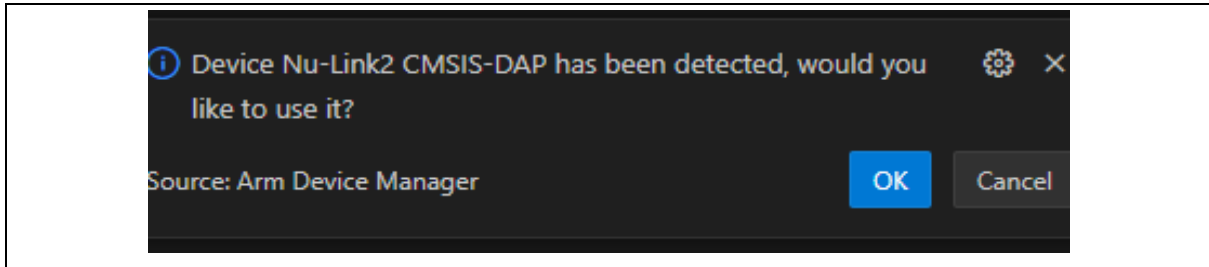
4. Click “**Device Manager**” icon in the Activity Bar to open the Device Manager.



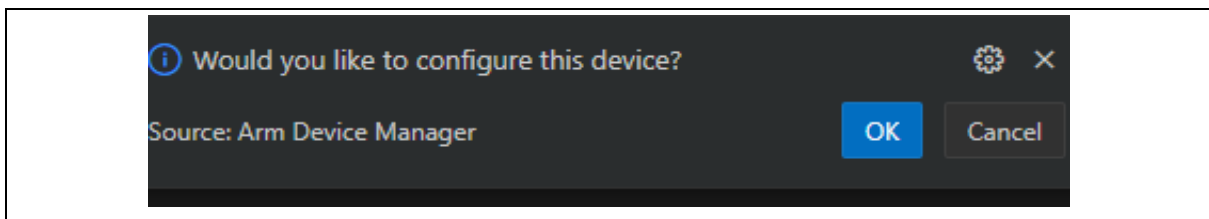
5. Connect device to your computer over USB.

The Device Manager detects the board and displays a pop-up message.

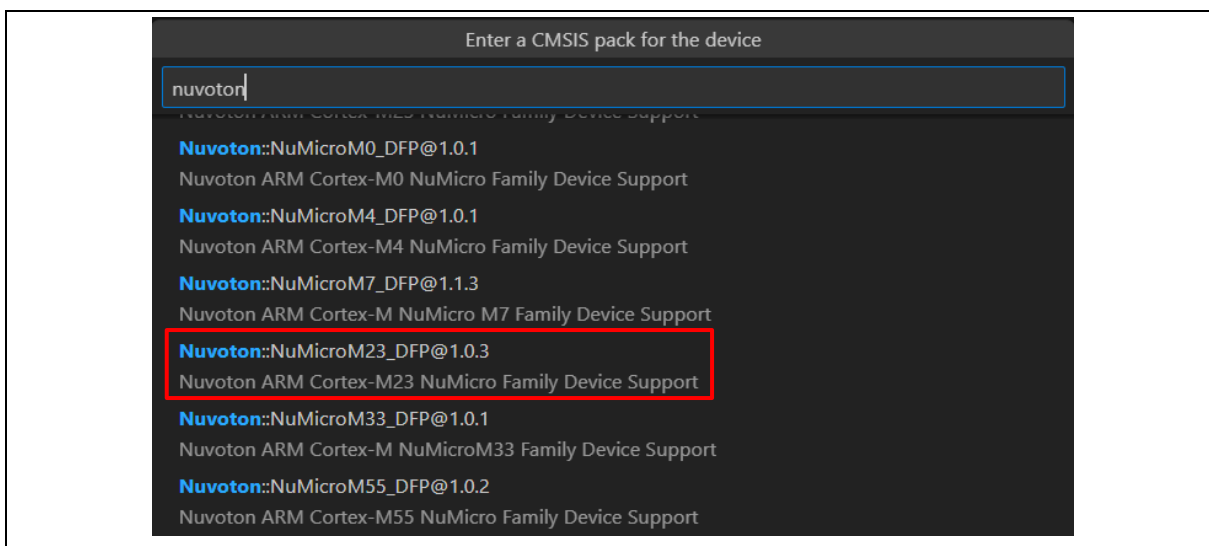
Press OK in the pop-up message and use it.



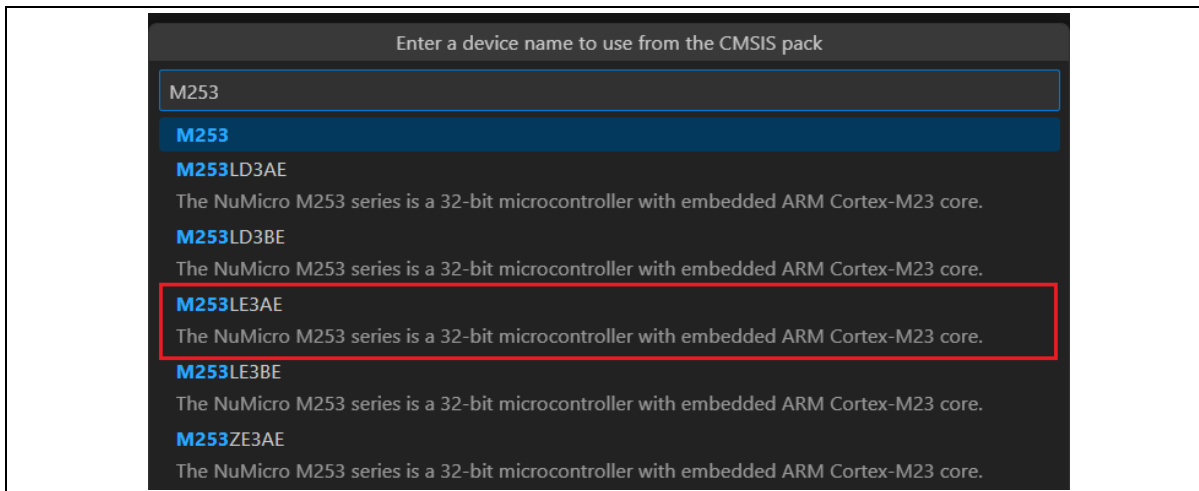
6. Press OK in the pop-up message and configure this device.



7. Text “**nuvoton**” in search bar and select corresponding CMSIS pack for the device.

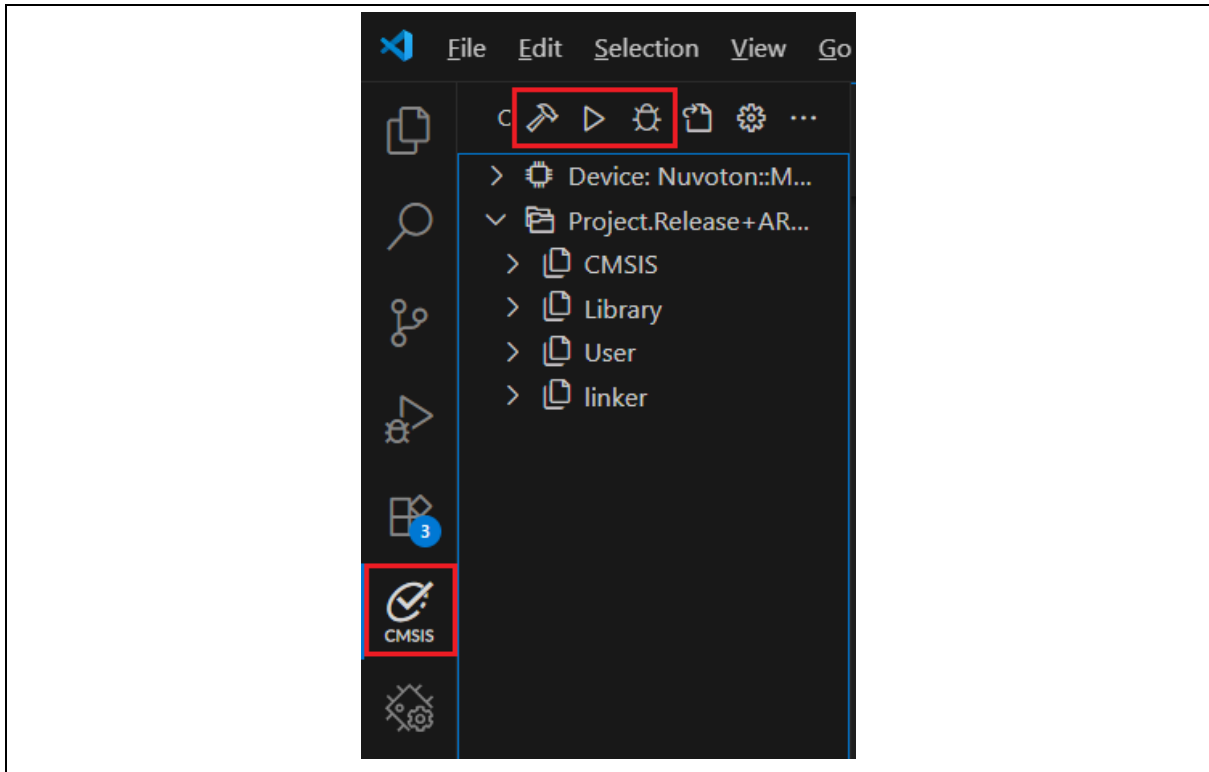


8. Text your “**device model number**” in search bar and select your target device.

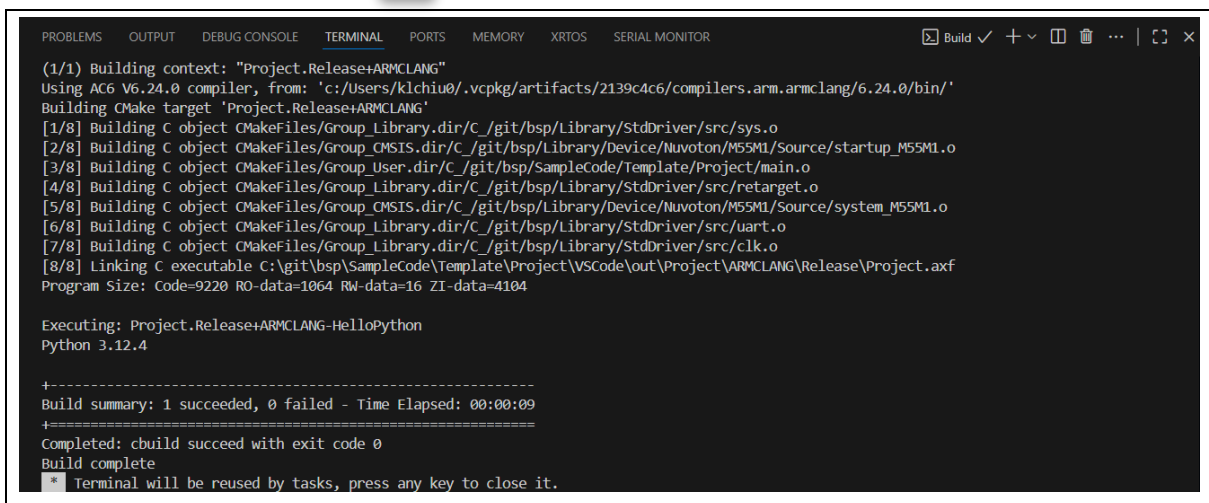


## 5 RUN THE SAMPLE PROJECT

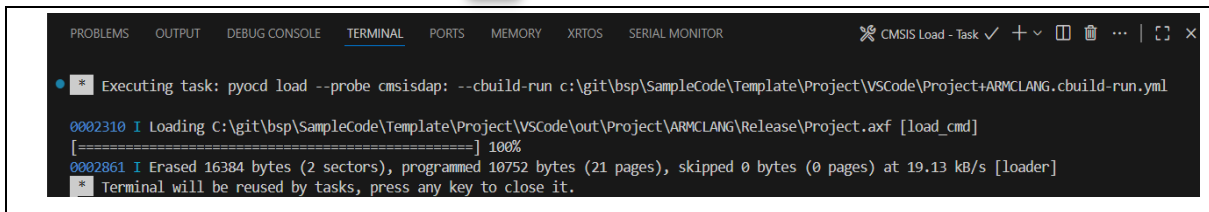
1. Click “CMSIS” icon in the Activity Bar.



2. Click “Build” button.

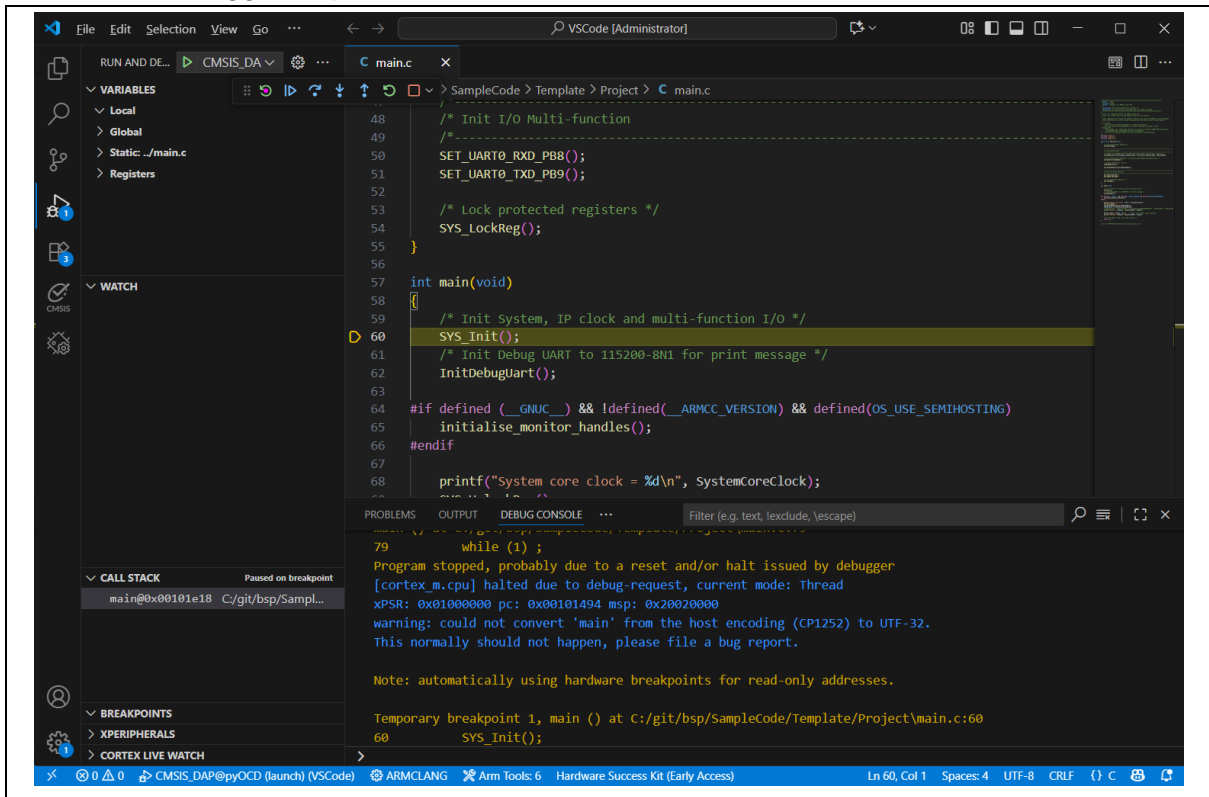


3. Click **“Load & Run”** button. 

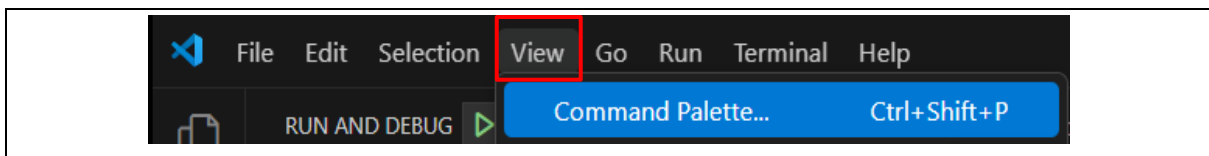


4. Click **“Load & Debug”** button. 

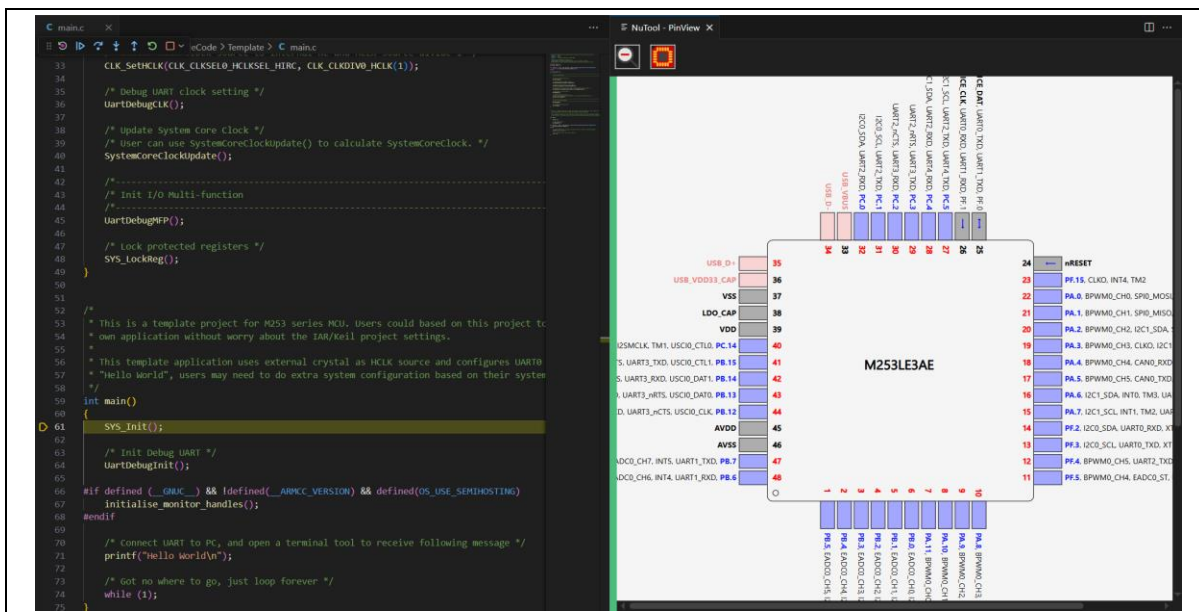
The debugger stops at the main function.



5. Click “**View**” menu and select “**Command palette**” item in the toolbar.



6. Text “Nuvoton:Open PinView” in search bar to open PinView tool.



## REVISION HISTORY

| Date       | Revision | Description         |
|------------|----------|---------------------|
| 2025.11.06 | 1.01     | 1. Initial version. |

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