This document provides a sample instruction on **generating C libraries for a chip platform** . Please provide a similar step-by-step instruction for your chip platform to help us create the SDK you need.

You only need to illustrate the specific development environment required to generate the C libraries, but do not solely include the environment setup process for your chip platform. Refer to this document to write a detailed instruction. Treat your audience as beginners and ensure you cover each step in your instruction without skipping any. Your audience should be able to create a C library based on the guidance you provide.

Installation environment

Operating system: Windows 10

Keil

1. Download mdk528a.exe and install it using the default settings.

2. Enter your preferred information, as shown below.

3. If a pop-up window like this appears, click **Install**.
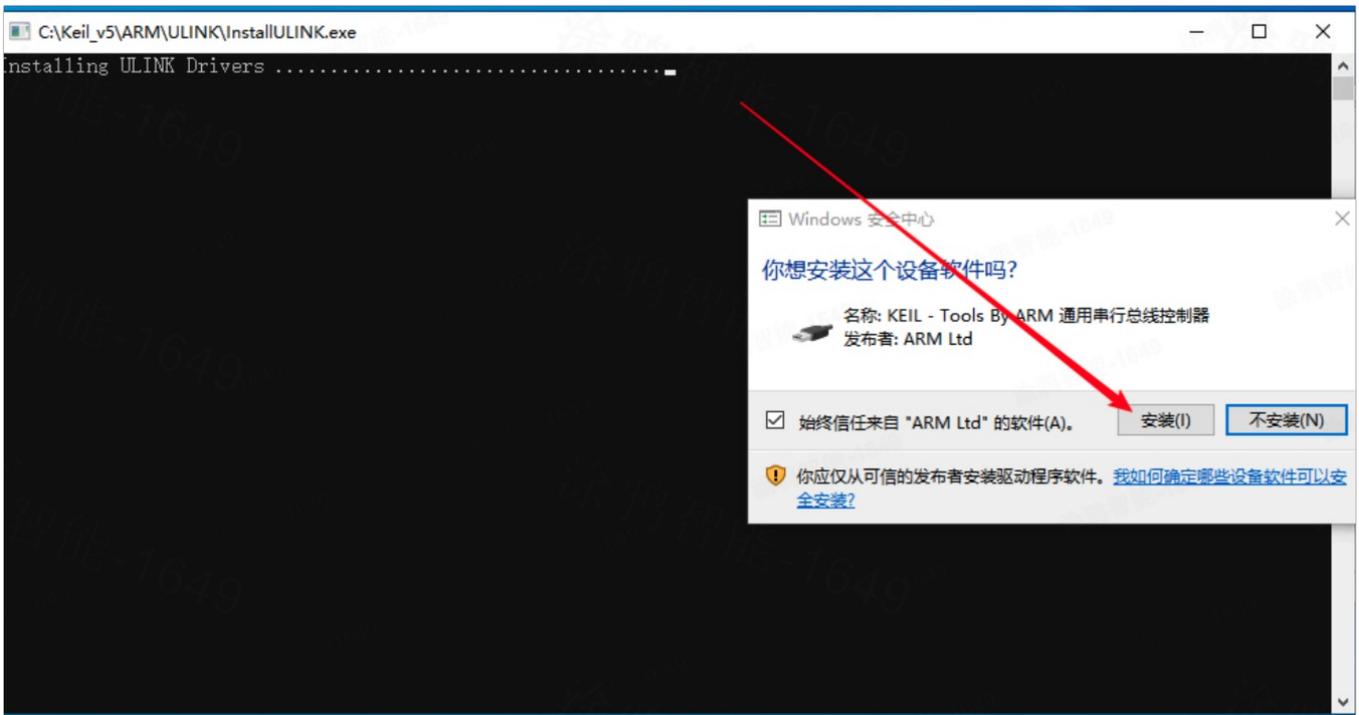
4. Uncheck **Show Release Notes** and click **Finish**.
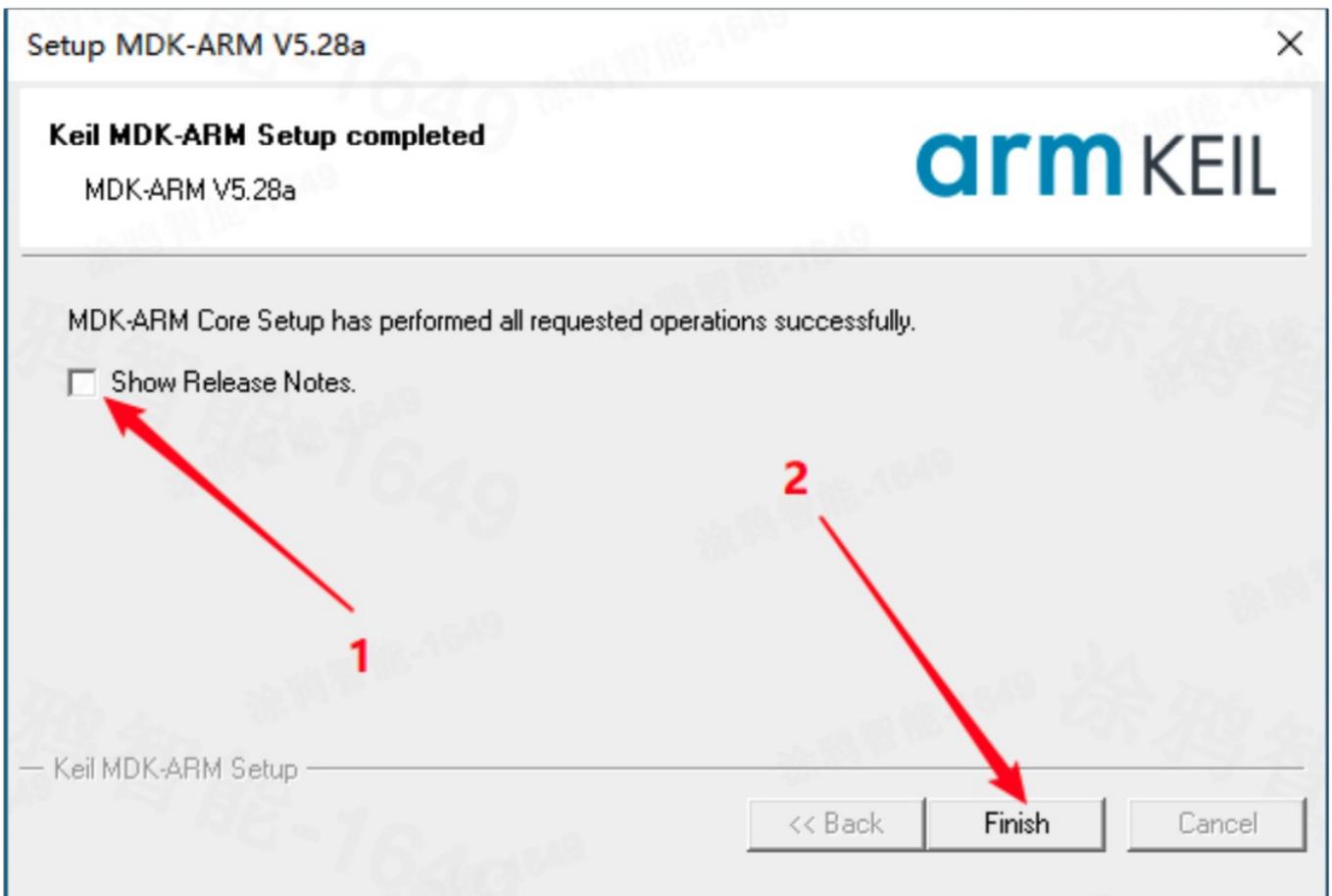
When opening Keil, if you are prompted to install a software pack, close the window.

> Do not let Keil automatically download Device Family Pack. Otherwise, the compilation might fail.

Arm's CMSIS

1. Click to download Arm's CMSIS.
2. Follow the prompts to complete the installation.

Device Family Pack

1. Click to download Device Family Pack.
2. Follow the prompts to complete the installation.

How to generate a C library

1. Download the sample project

2. Double-click to open the sample project **Demo.uvprojx**.
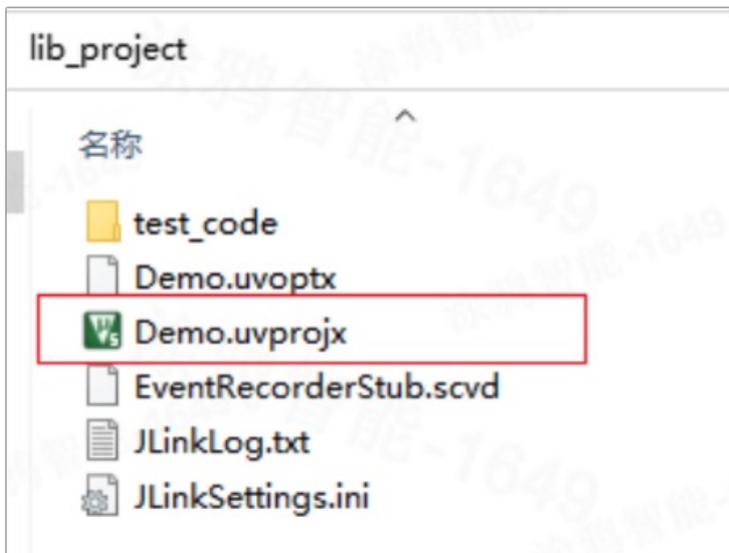
3. Add the source file.
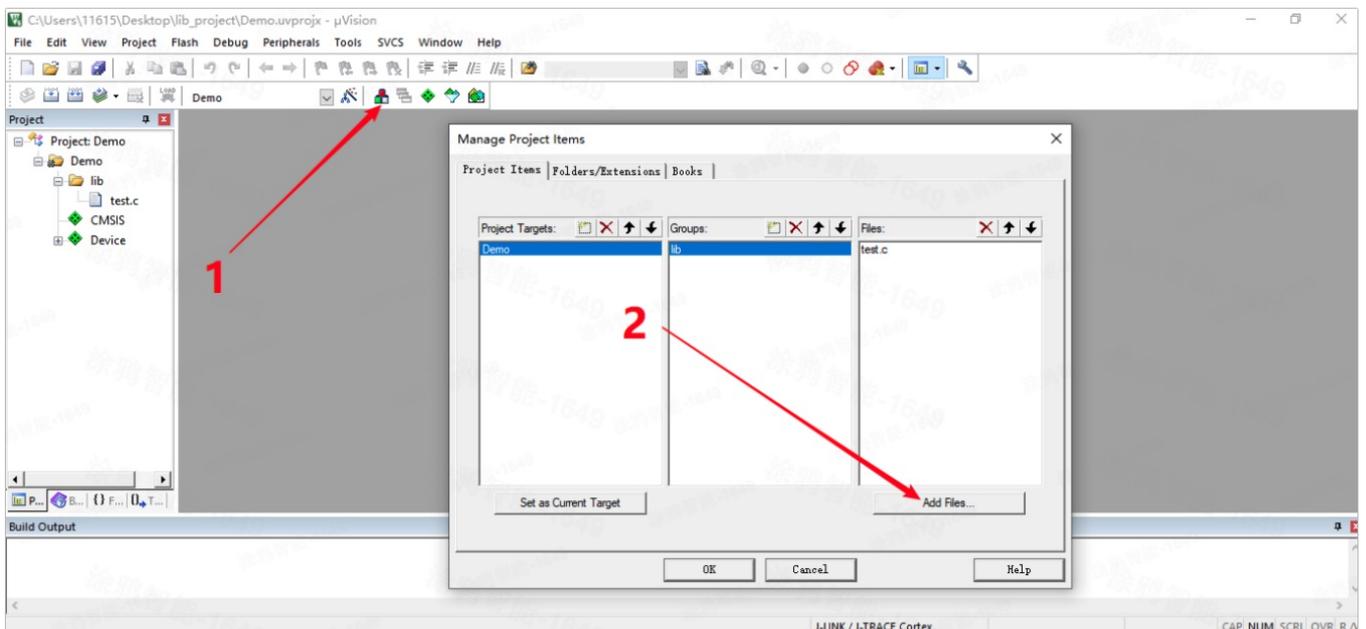
4. Add the header file.
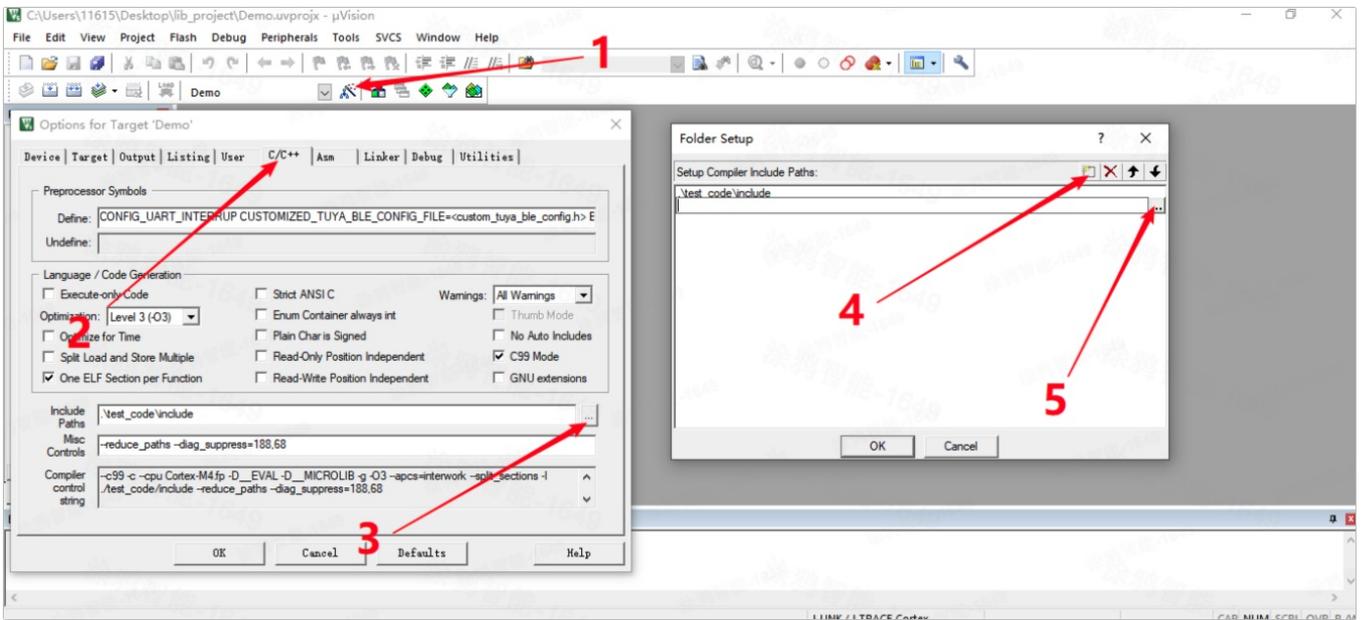
5. Review the configurations.
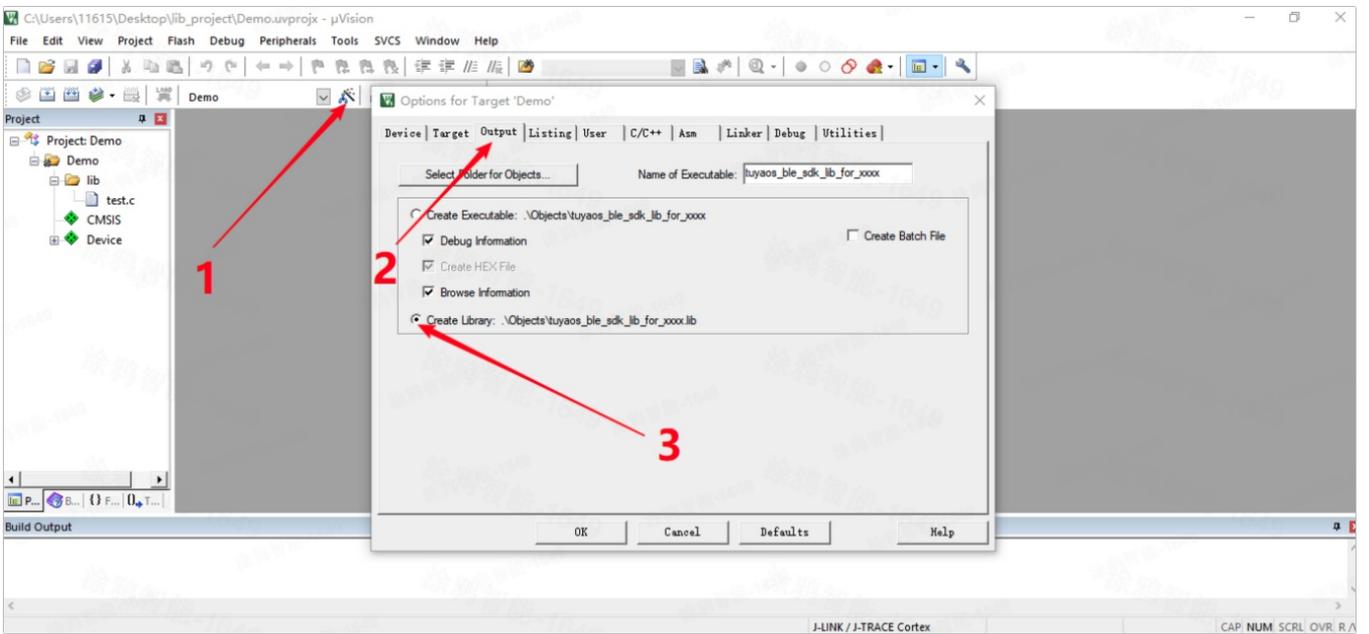
6. Compile the project.
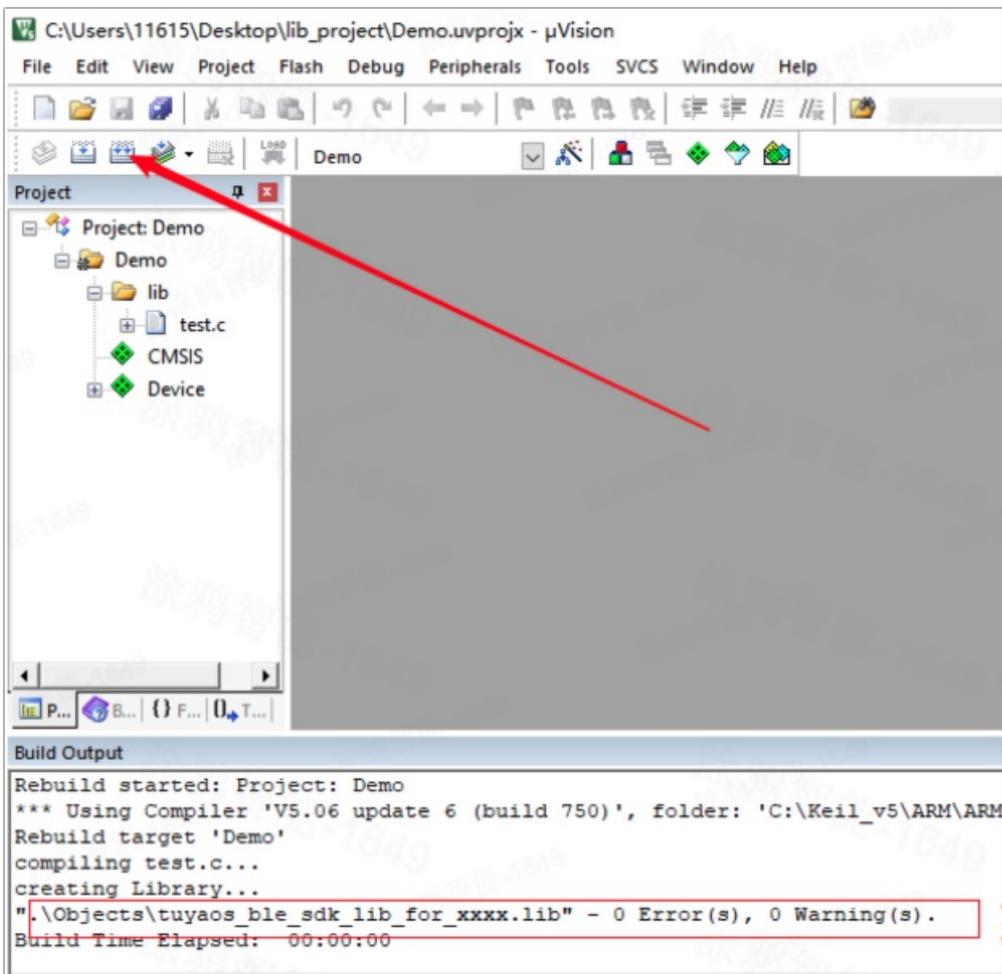
7. Find the library `tuyaos_ble_sdk_lib_for_xxxx.lib` for `test.c` .