ARM7 programming using Keil µVision5

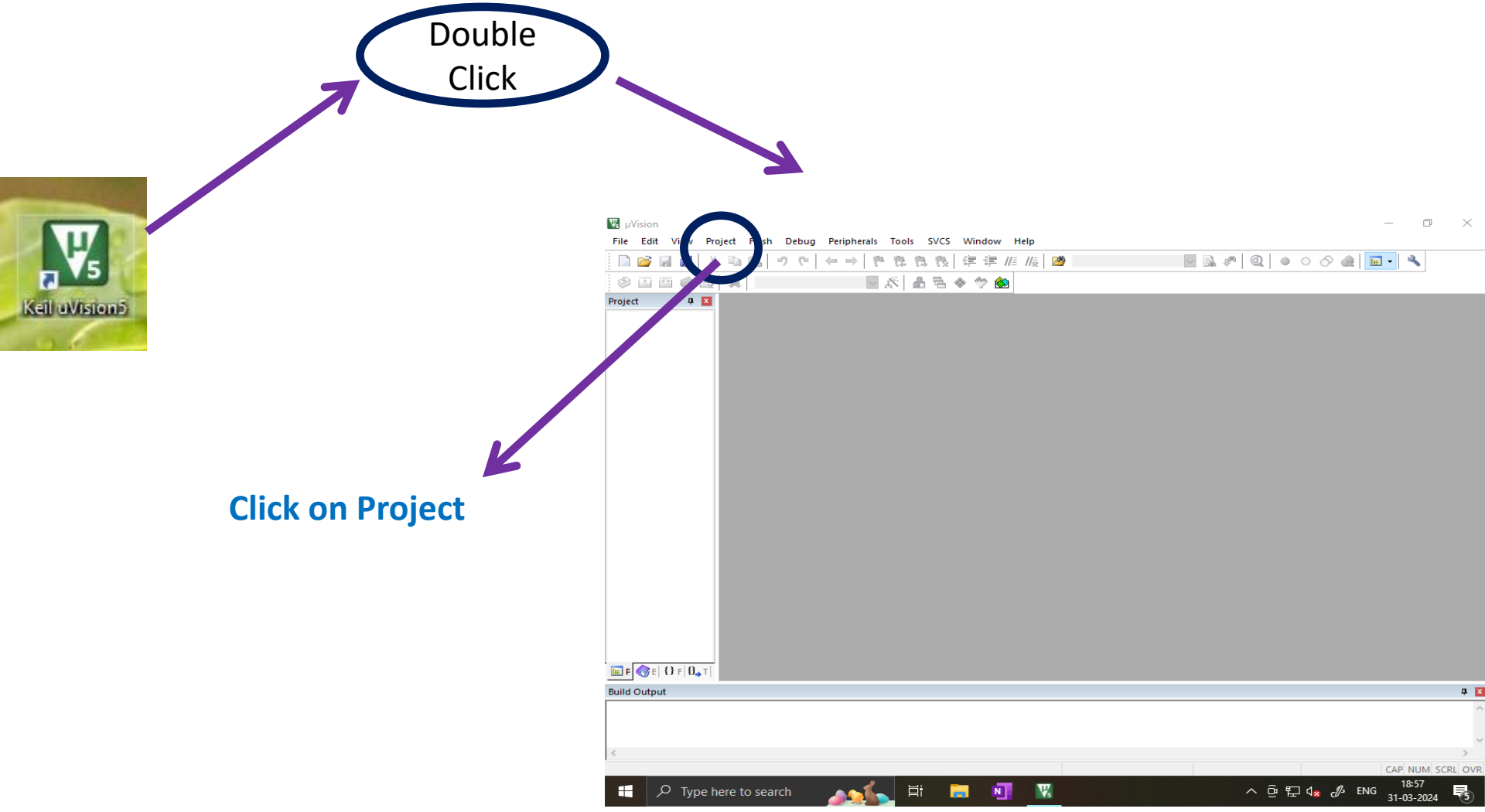
Introduction

- **Keil uVision 5** is a powerful software tool designed for the development of embedded systems, providing users with robust features and optimizations.

- It offers an efficient and streamlined environment for project management and debugging.

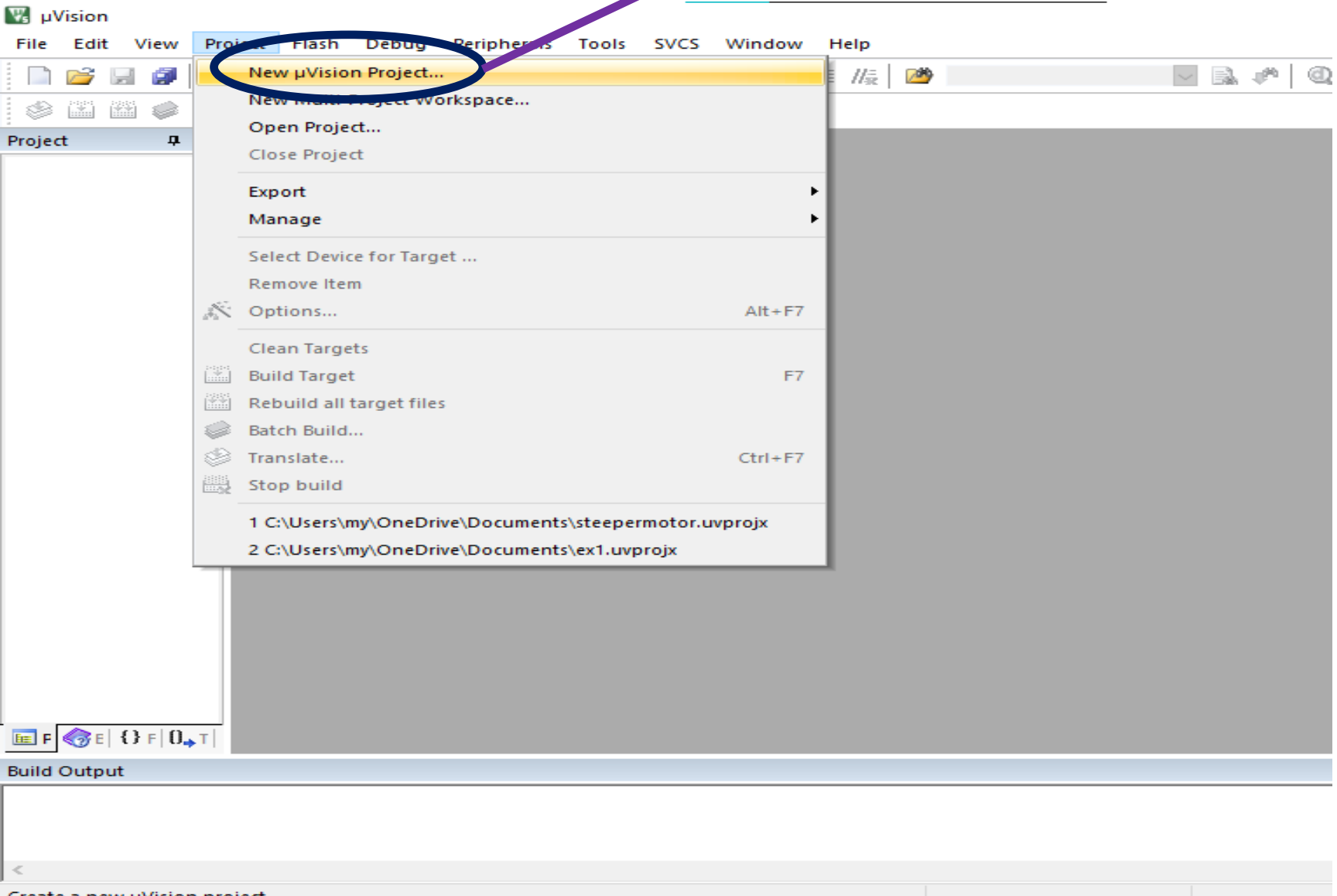
1st create your own folder with the registration Number under … folder (document), and then click on Keil µVision5

Create a Project



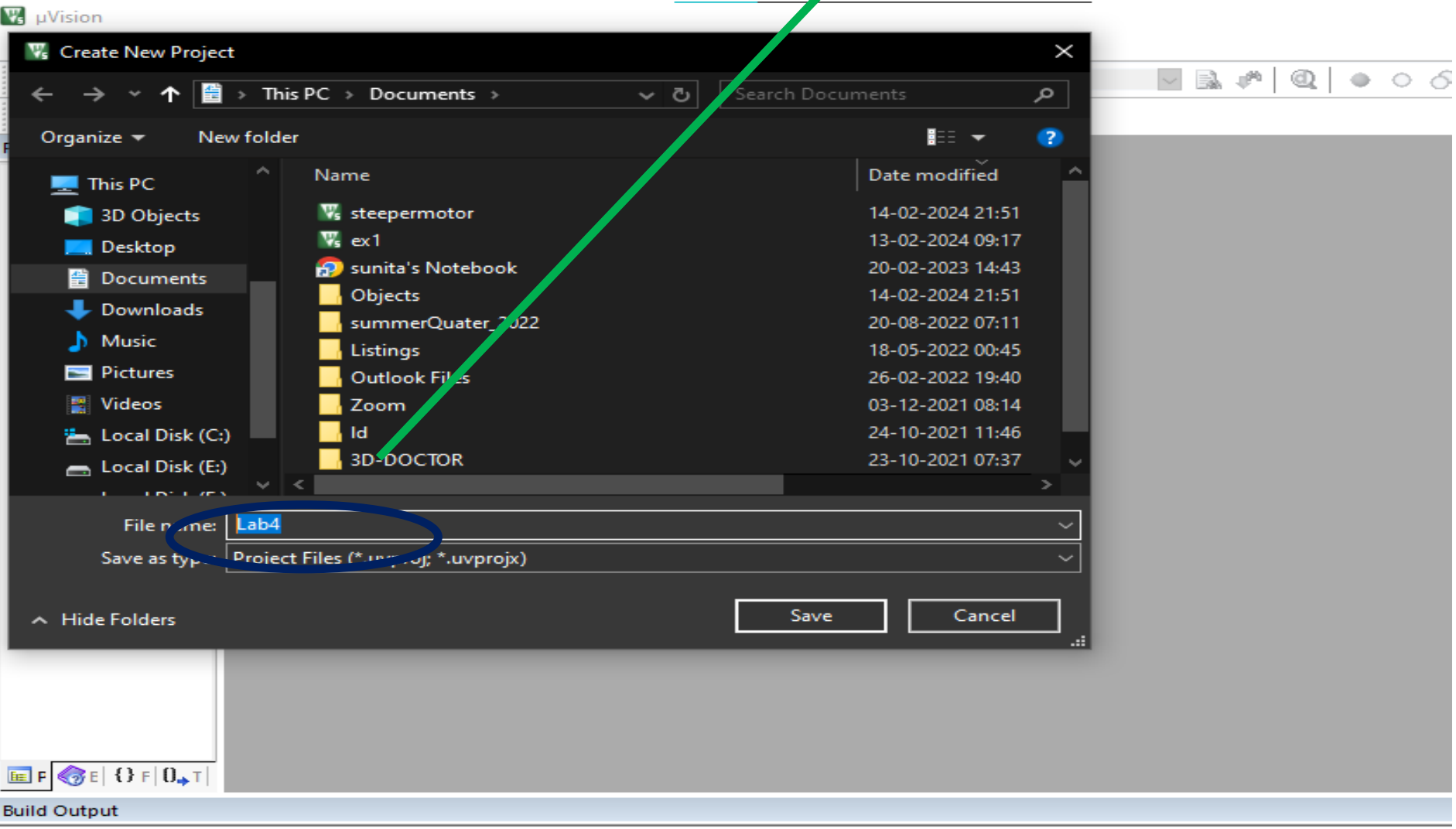
Create a Project

Click on New µVision Project



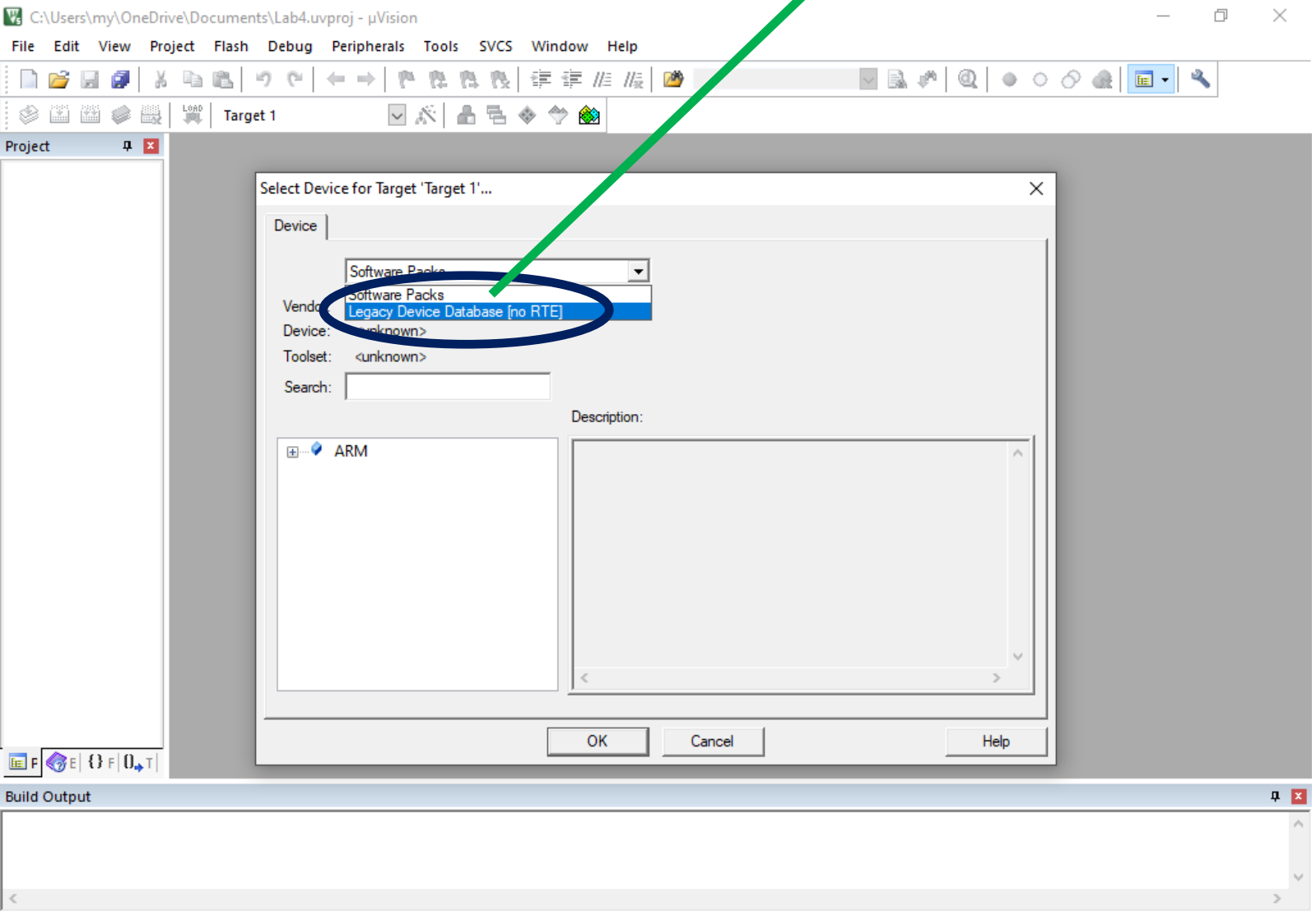
Create a Project

Give your Project name and set the project location to your respective folder



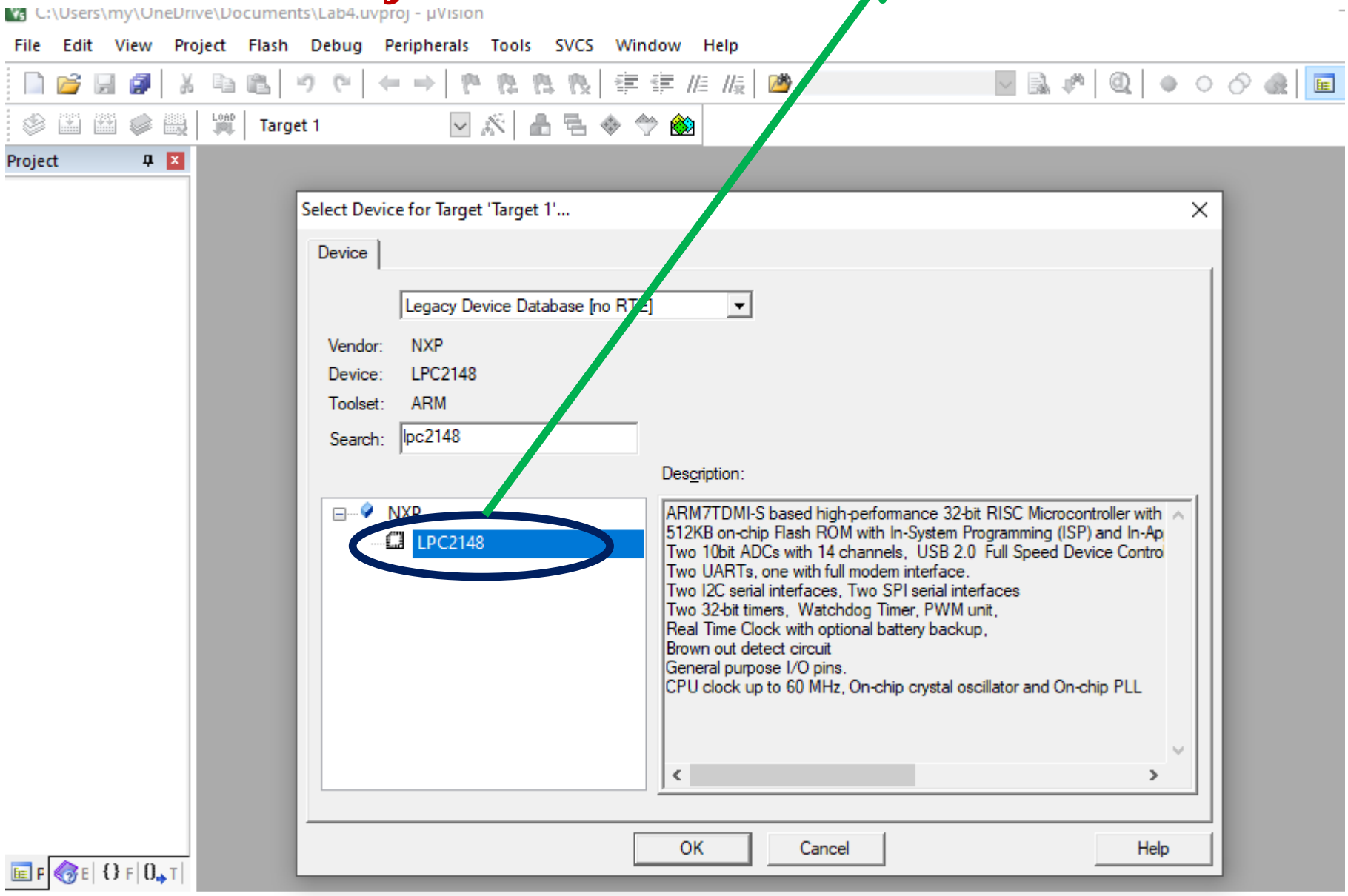
Create a Project

For ARM7, Select the Legacy Device Database for RTE from drop down arrow



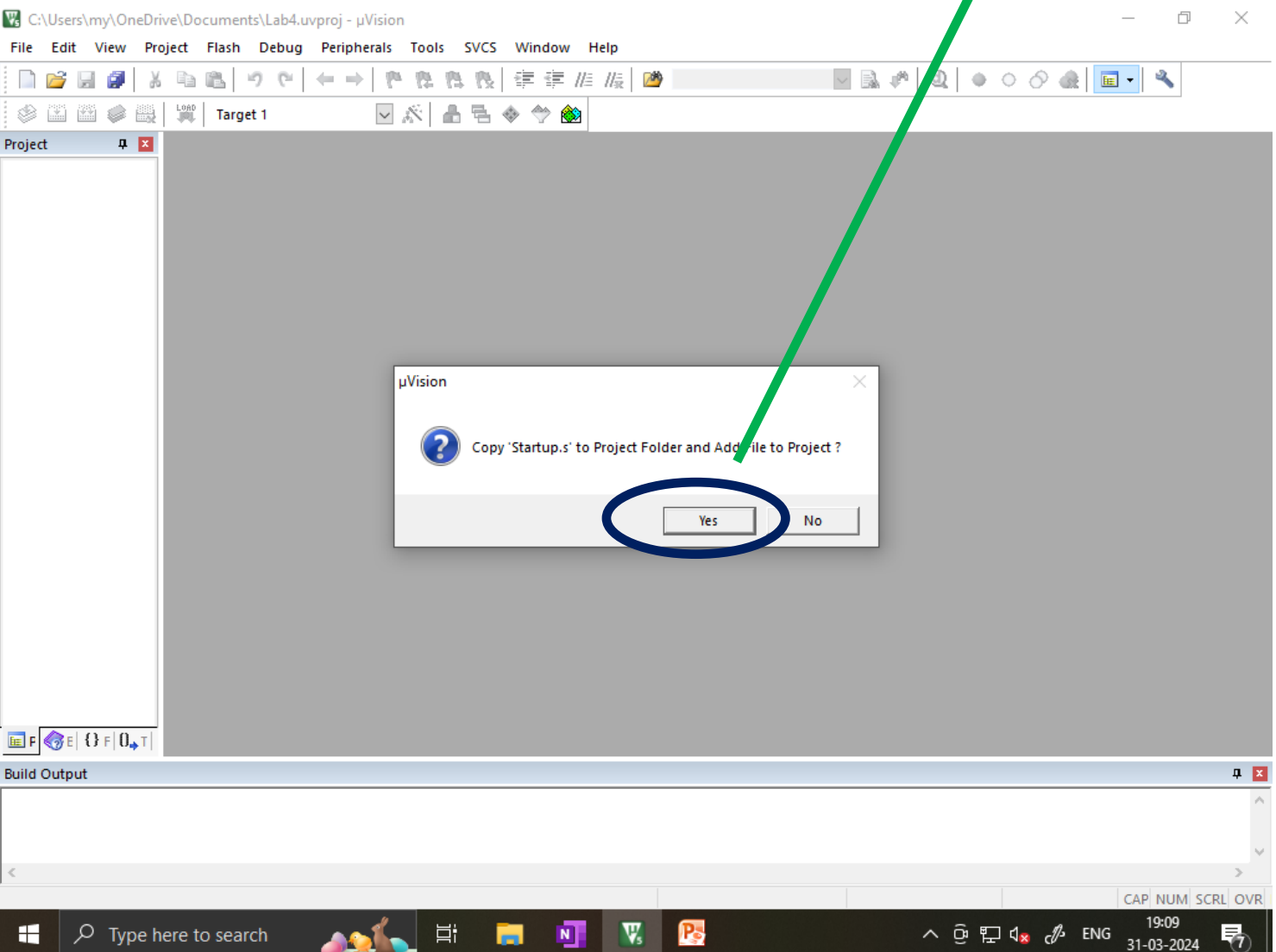
Create a Project

Search the Device LPC2148 and
Select under Legacy Device Database

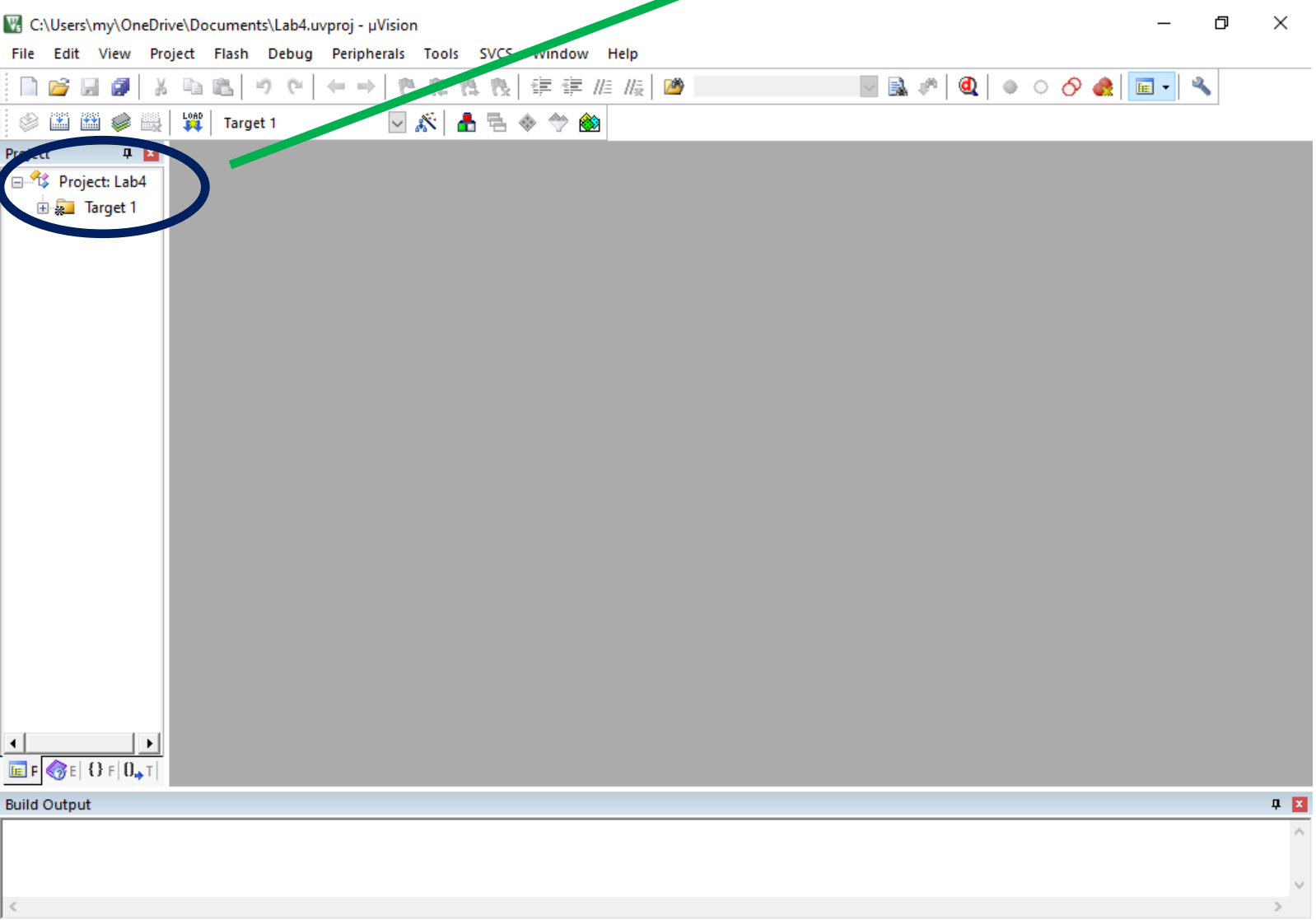


Create a Project

Click on Yes to Copy Startup.s file in the project Target

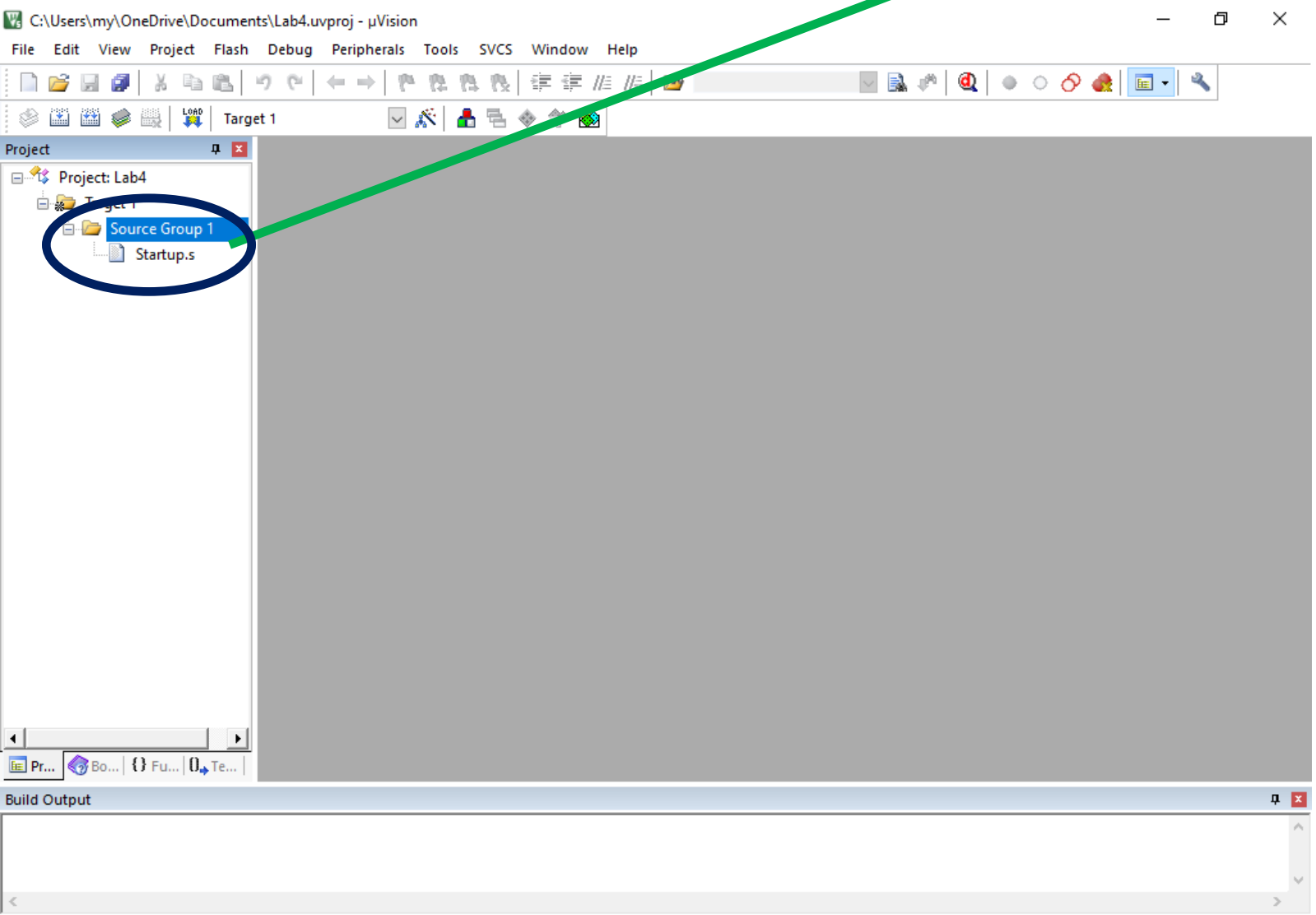


Project has been created

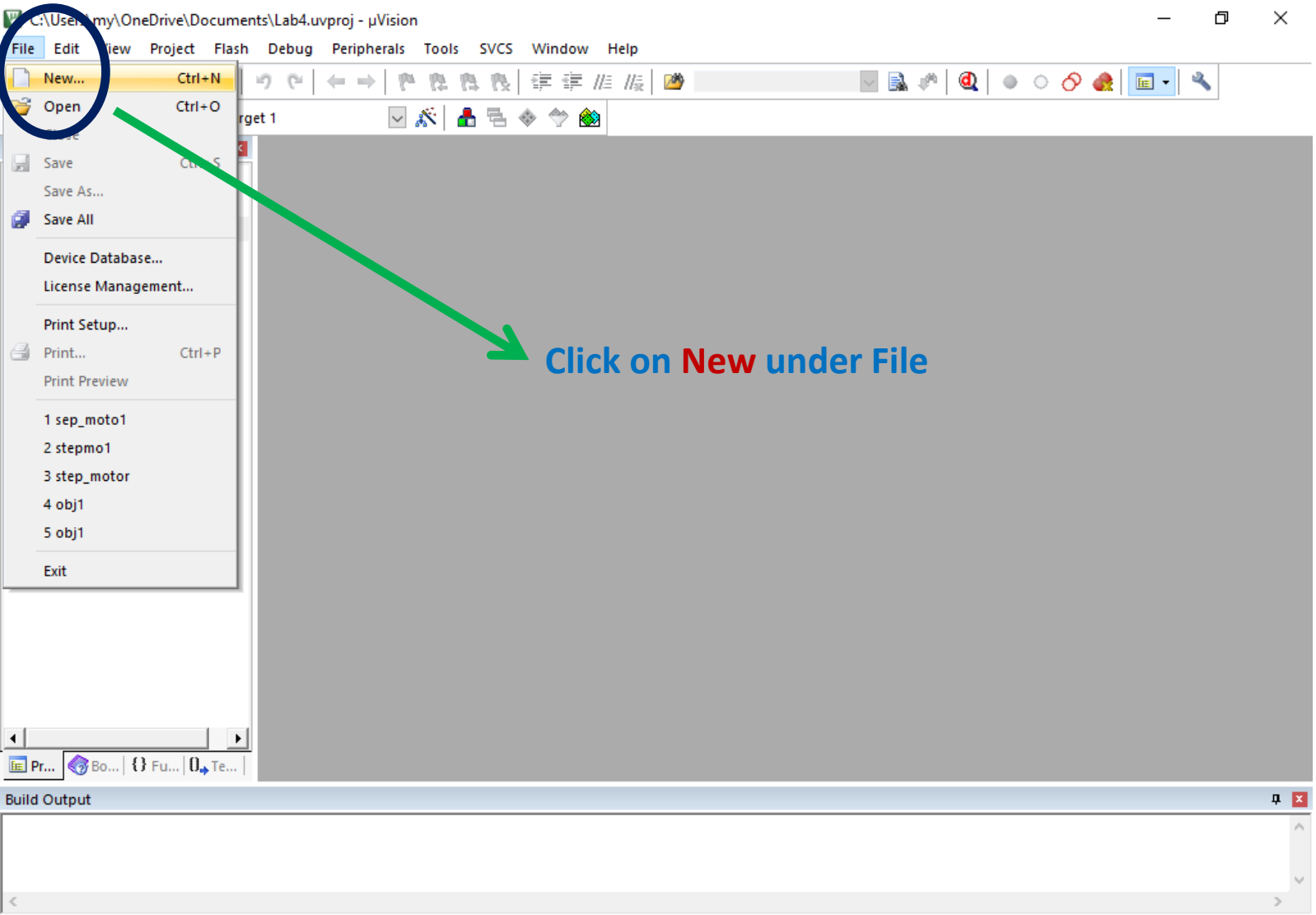


Project created

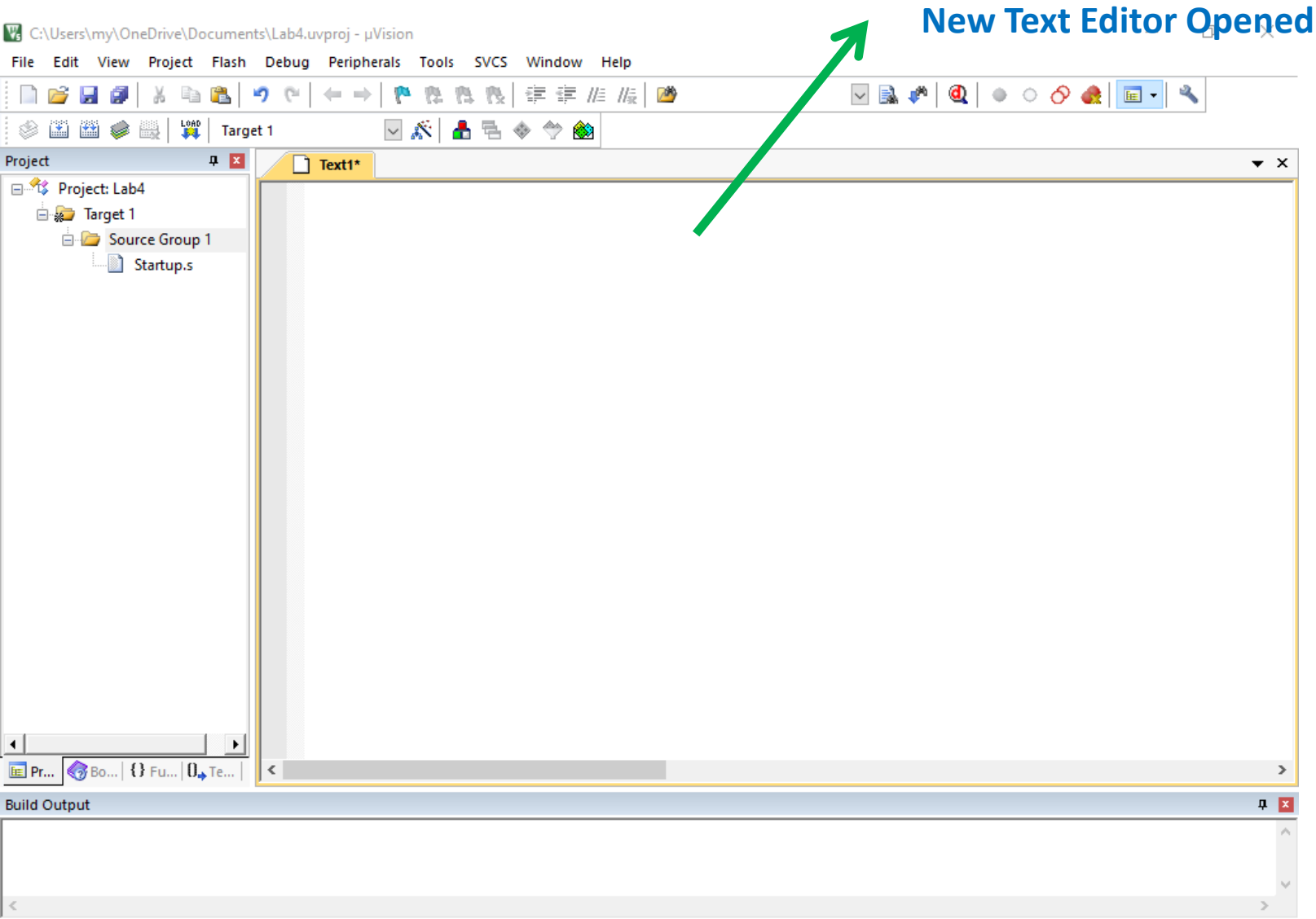
Startup.s has been added



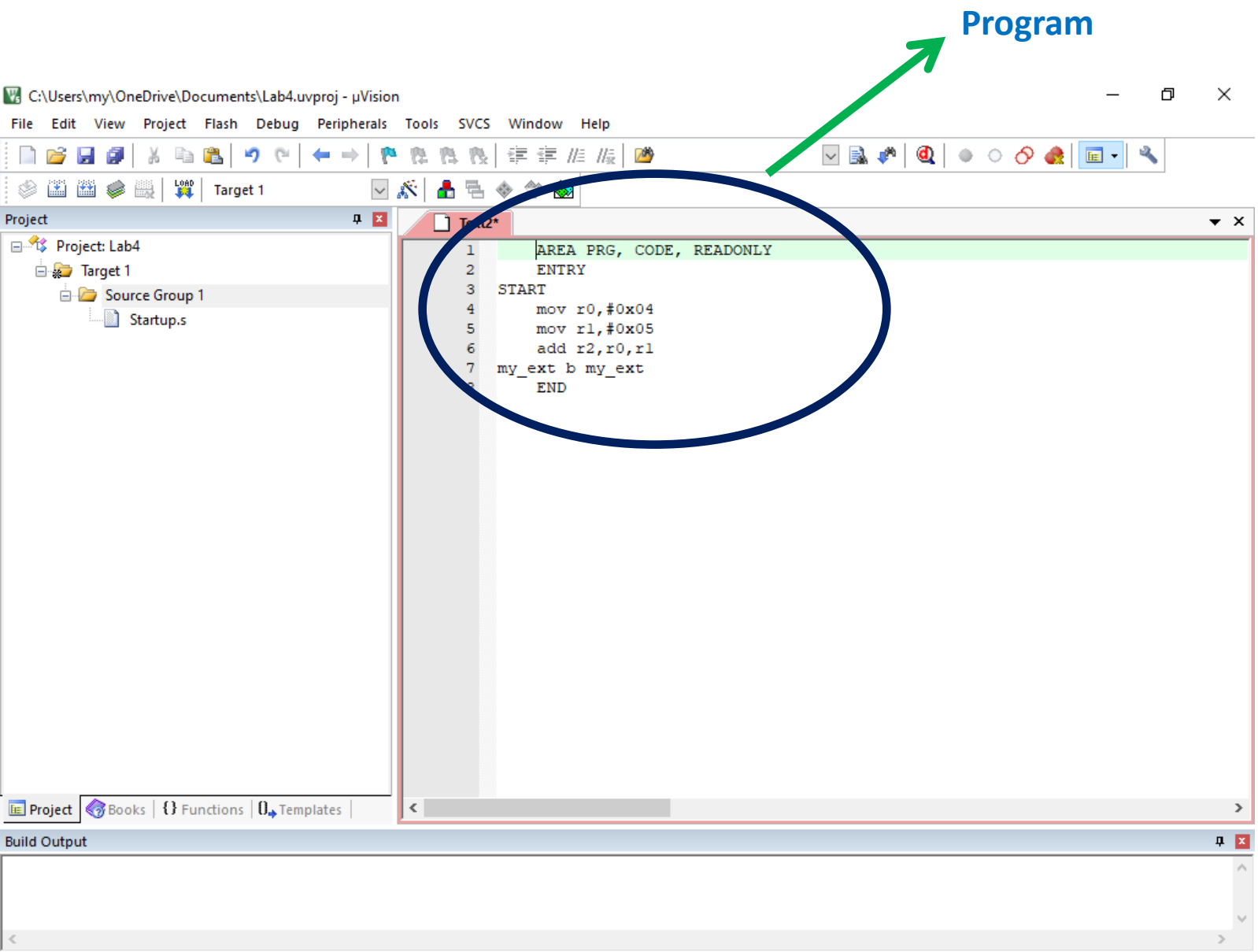
Create a File to write the program



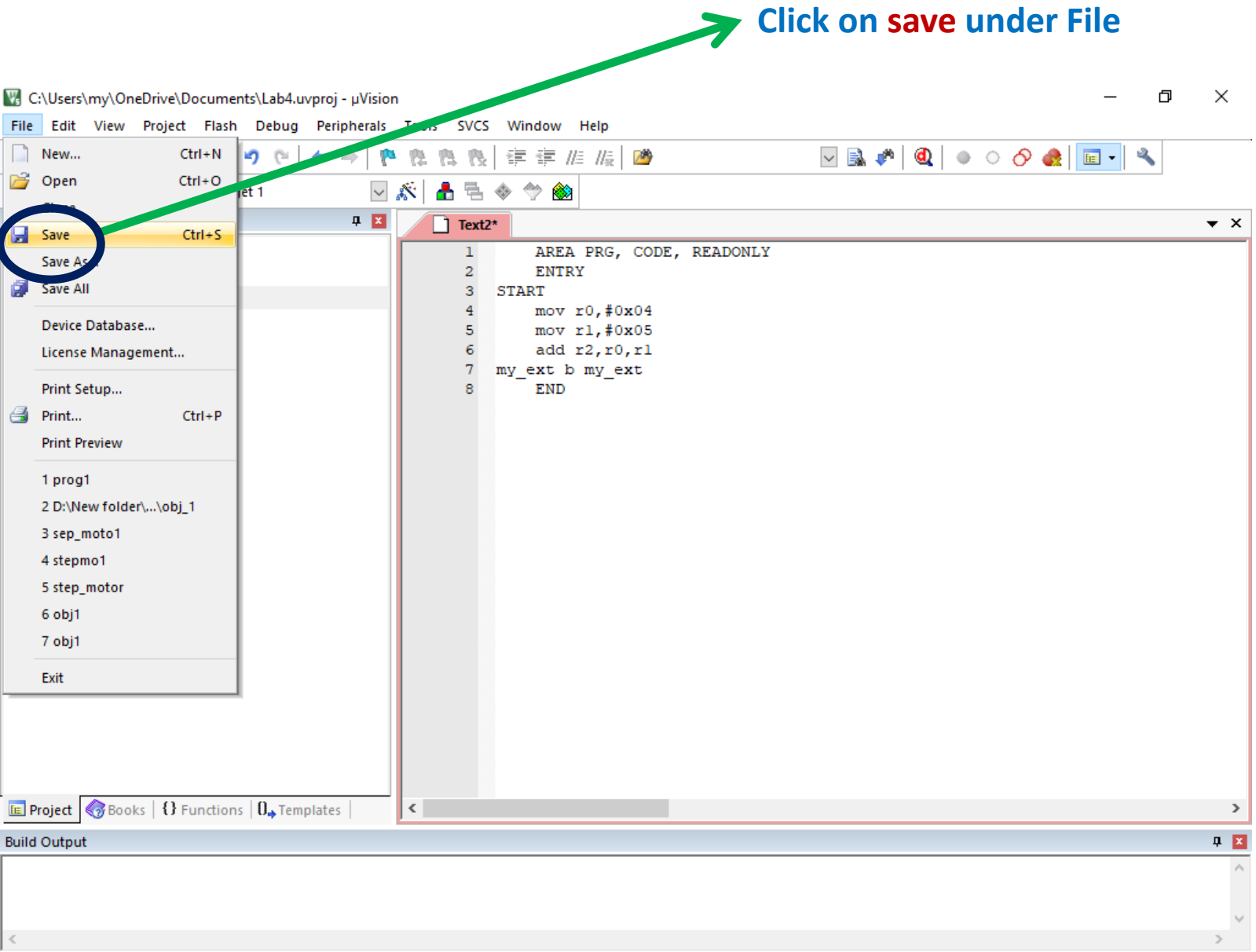
Create a File to write the program



Write the program

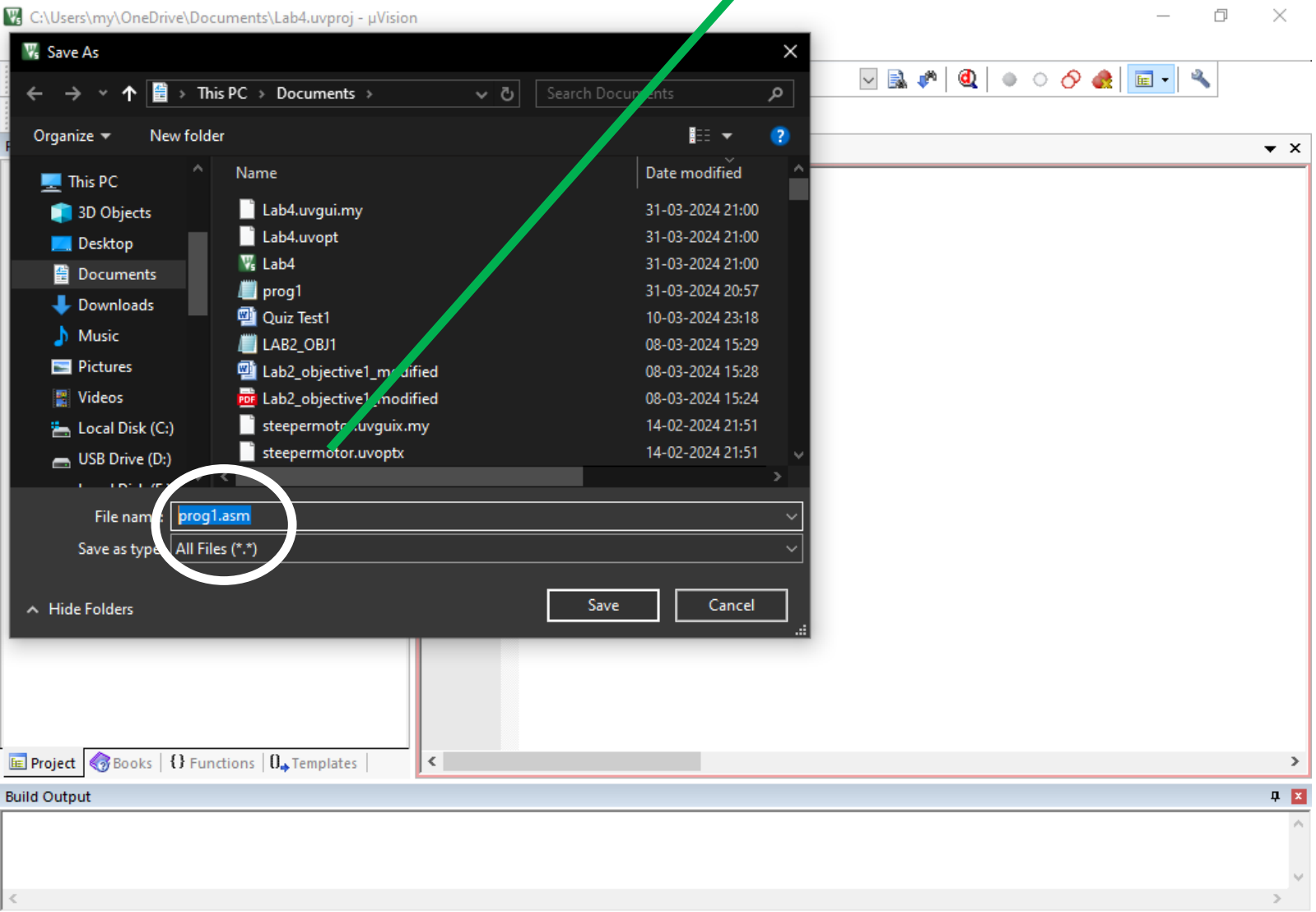


Save the program



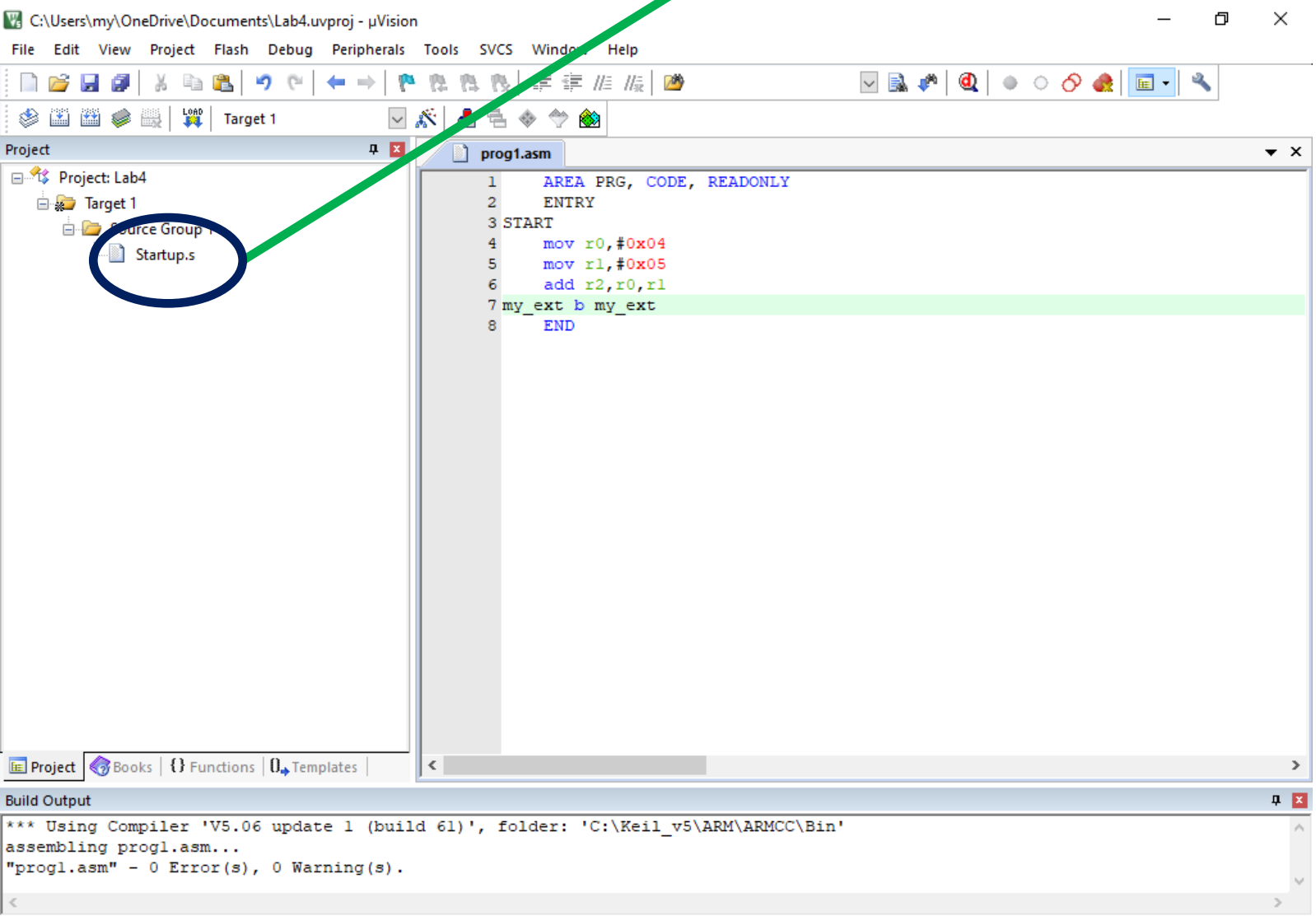
Save the program

Save the program with … .asm in the project folder location



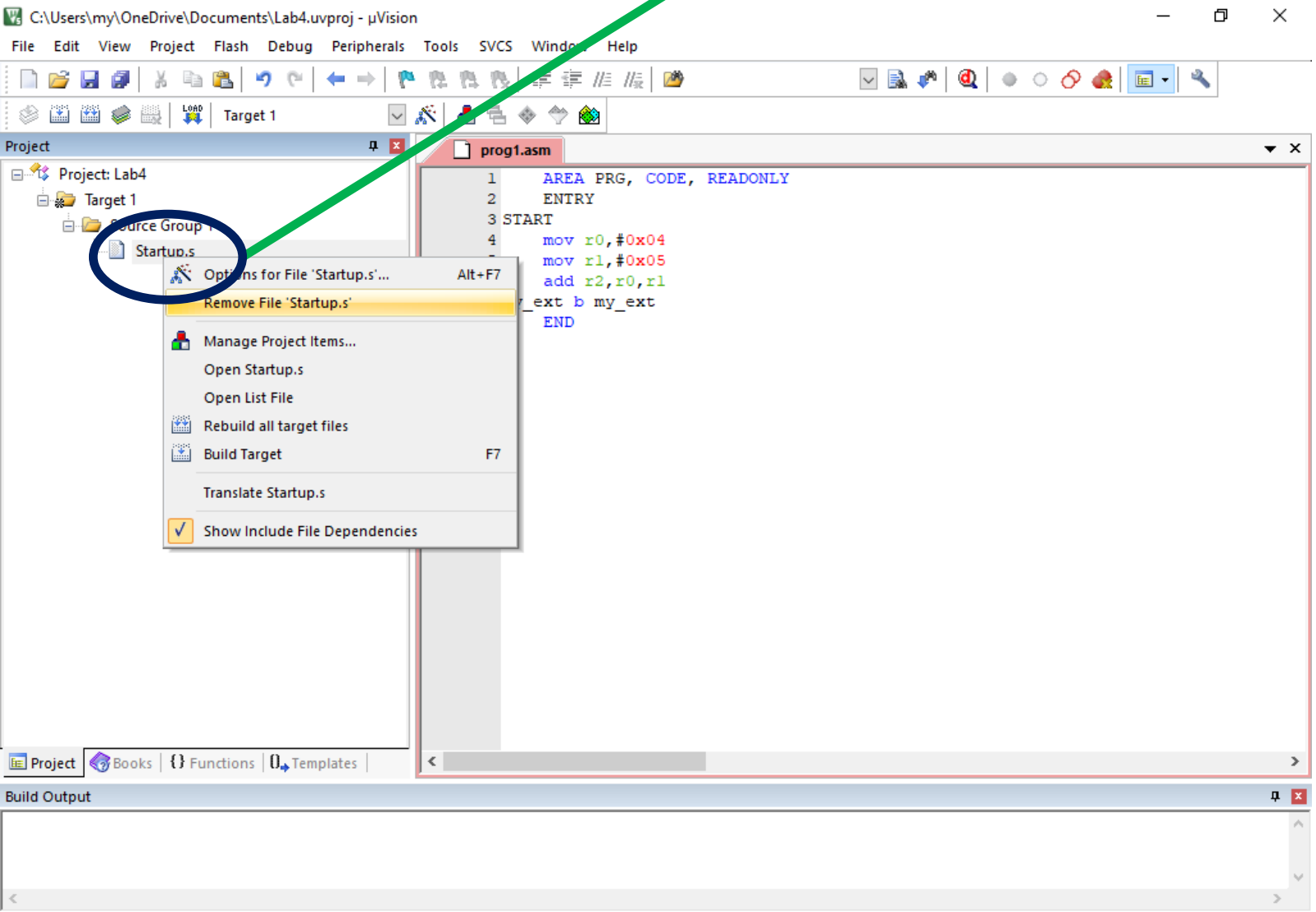
Add the program

First remove the Startup.s file from Source Group

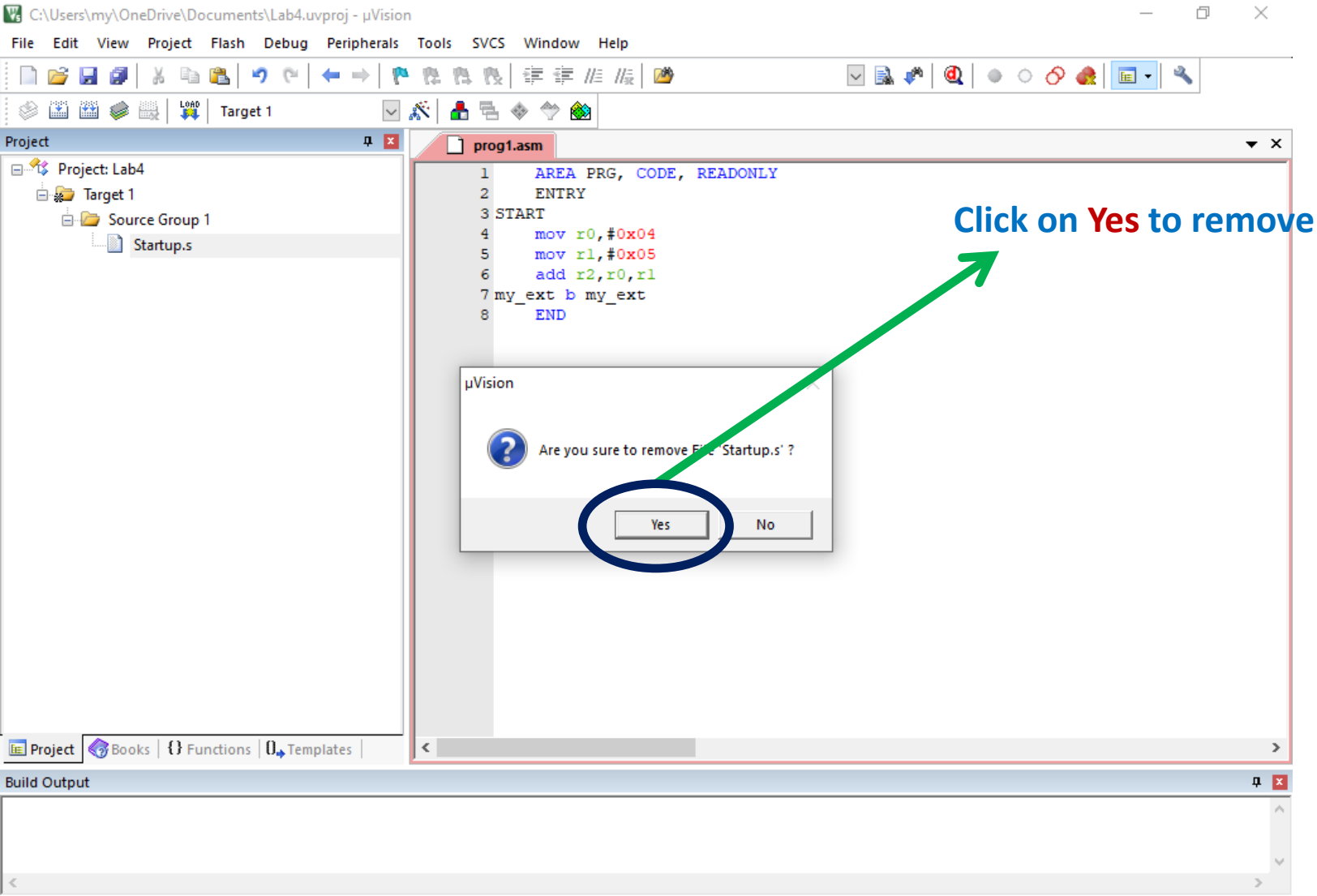


Add the program

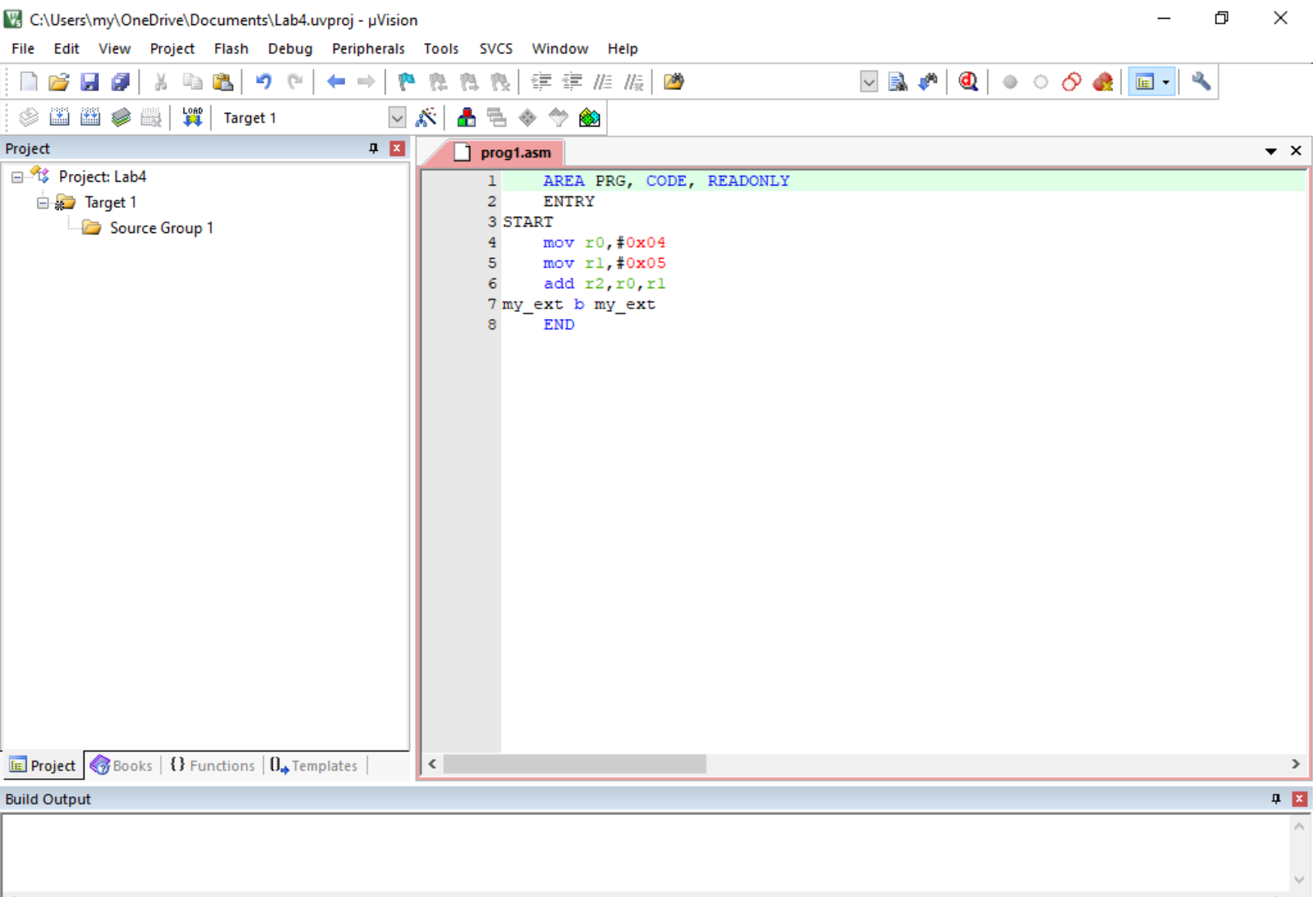
Right click on Startup.s and then Remove File



Add the program

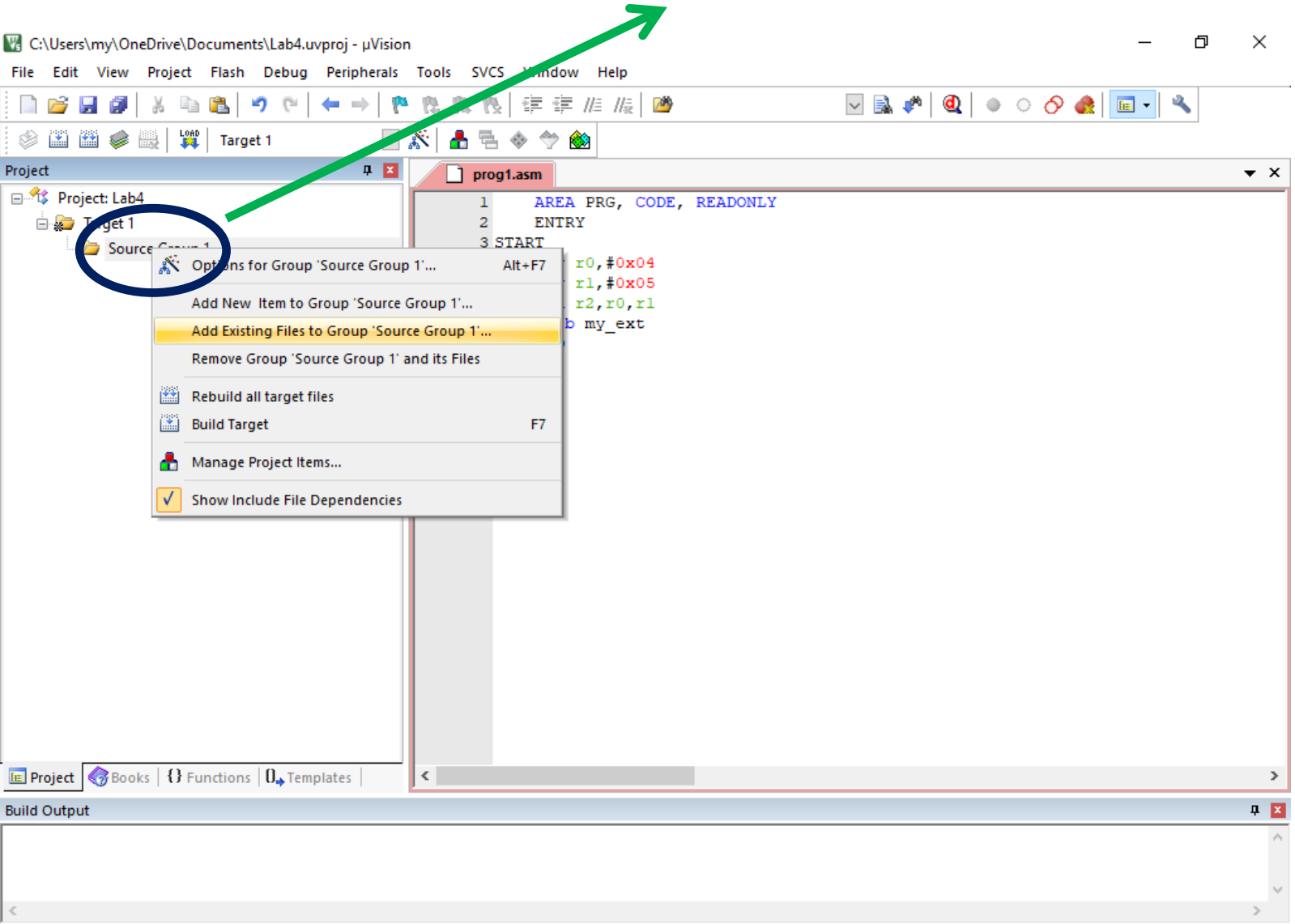


Add the program

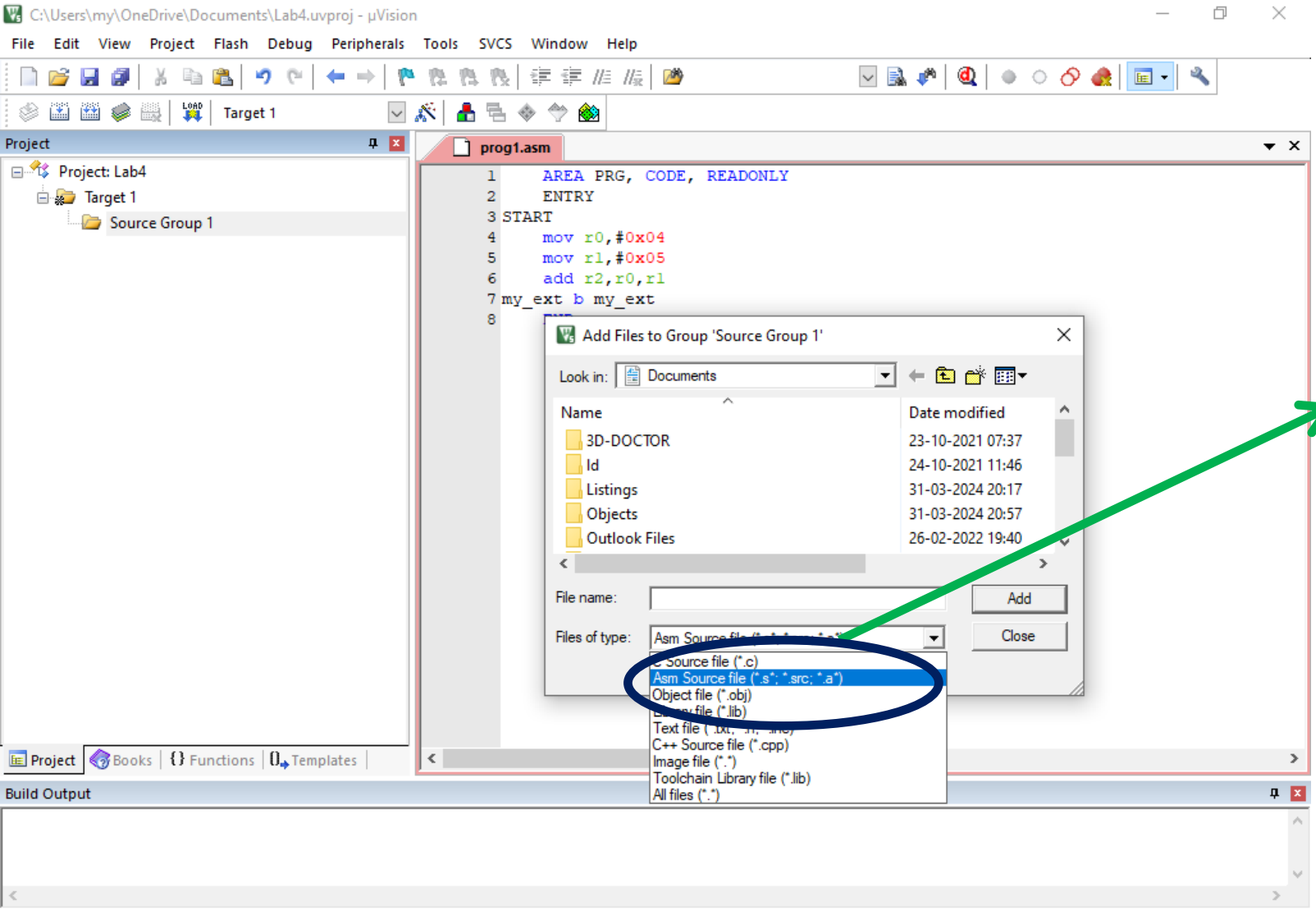


Add the program

Right Click on Source Group1 to add the program

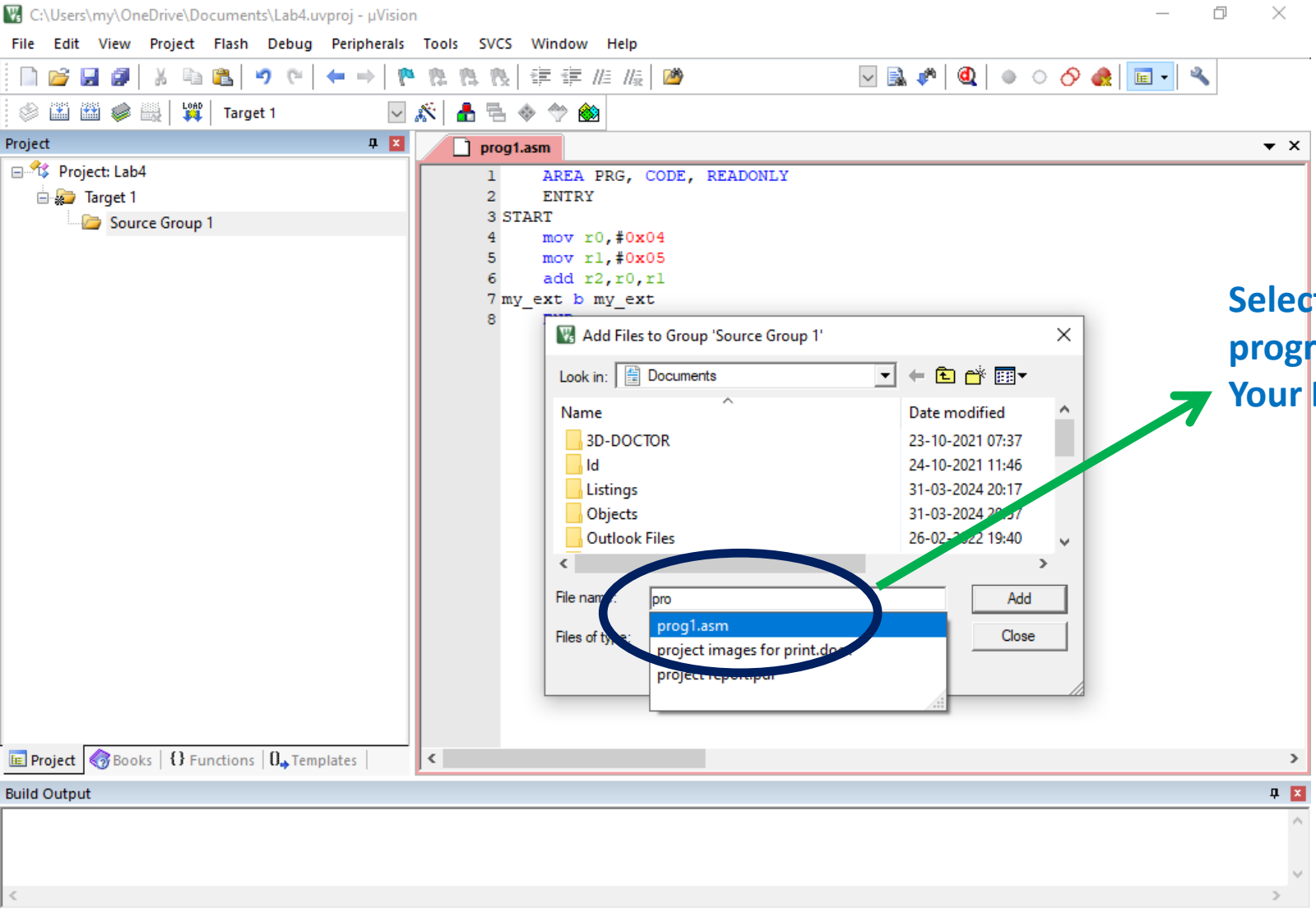


Add the program



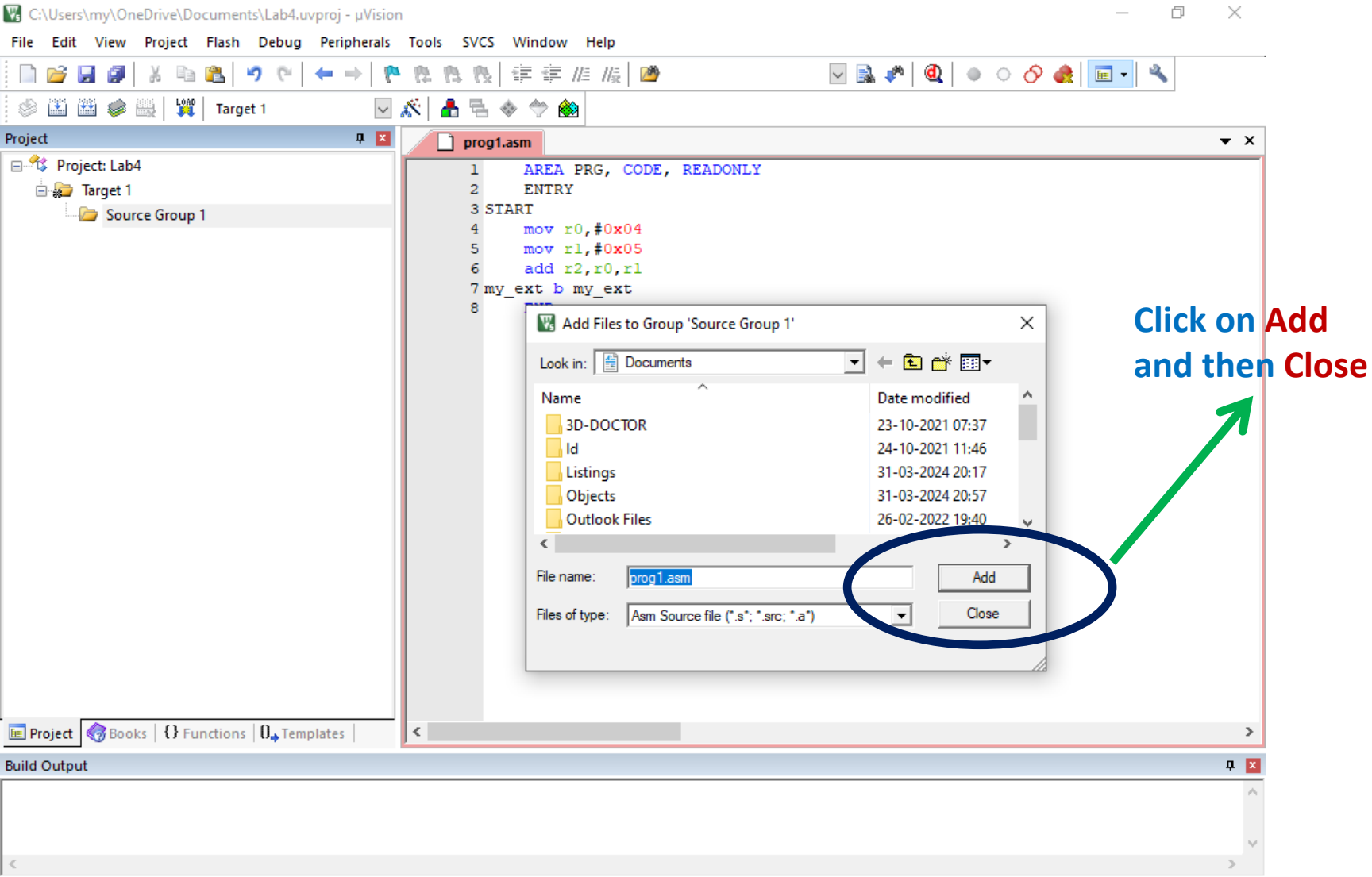
Select the File Type as .s,…, .a

Add the program



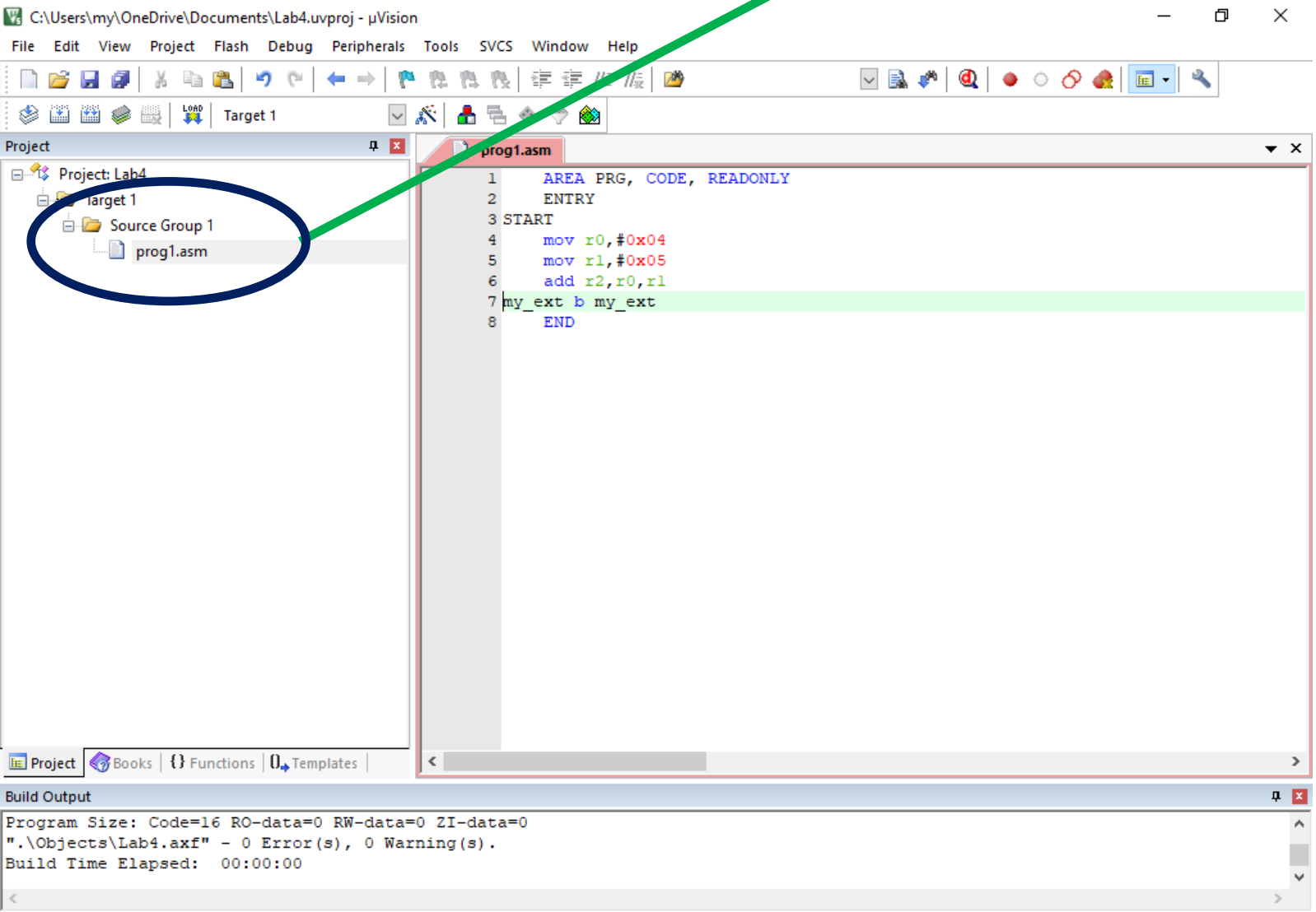
Select the program from the Your Folder

Add the program

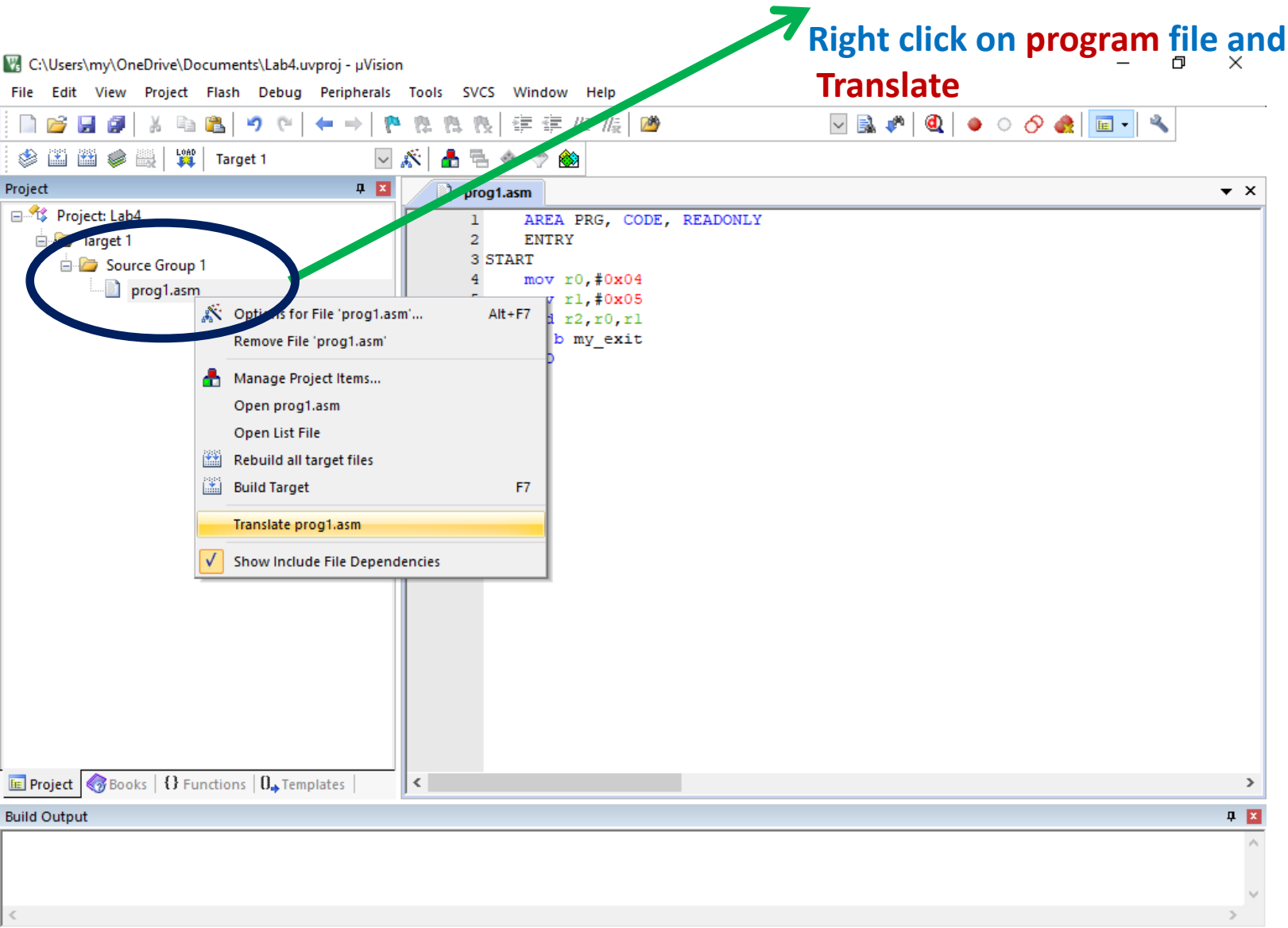


Add the program

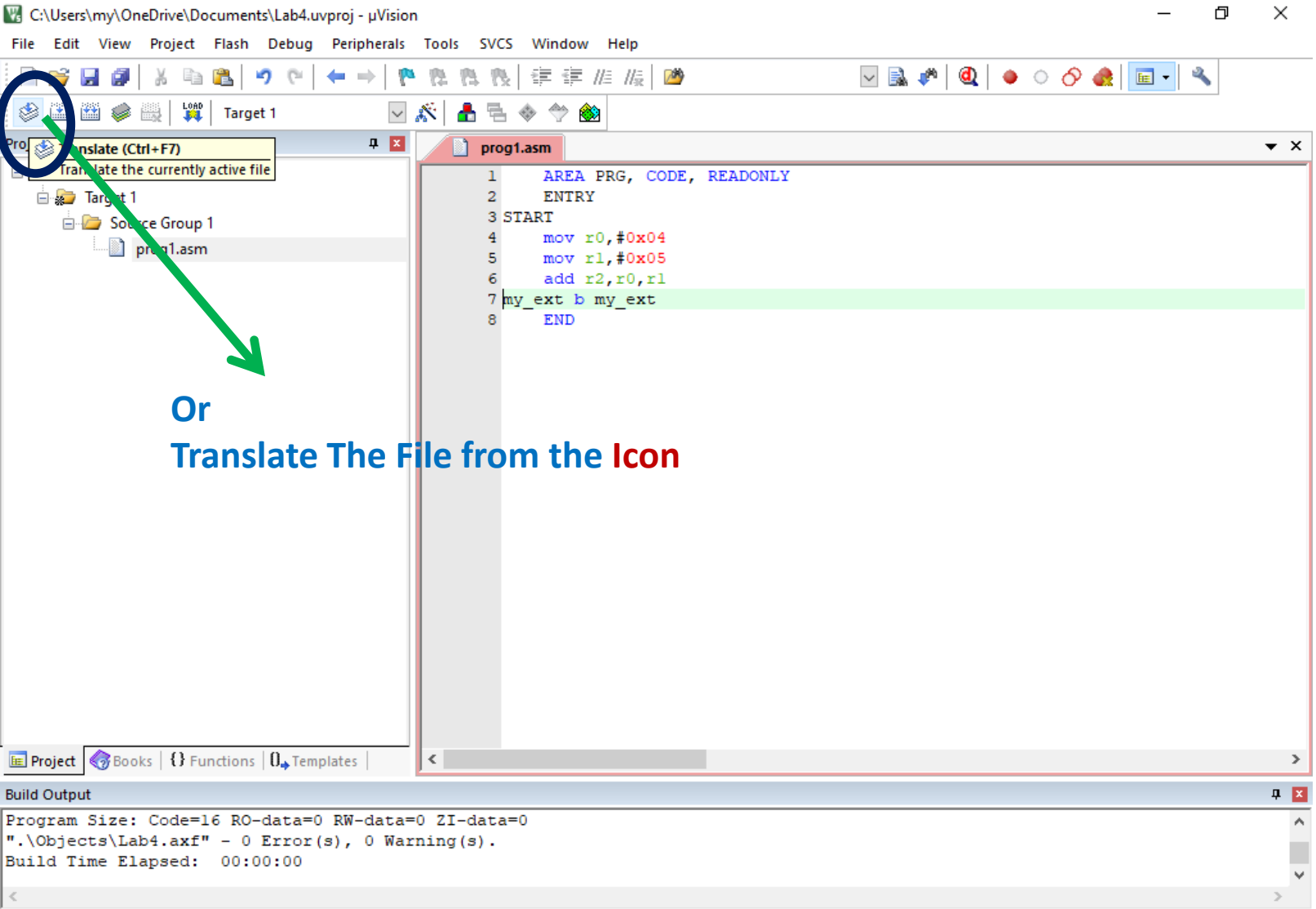
Program has been added under Source Group1



Compile the program: 1. Translate the program



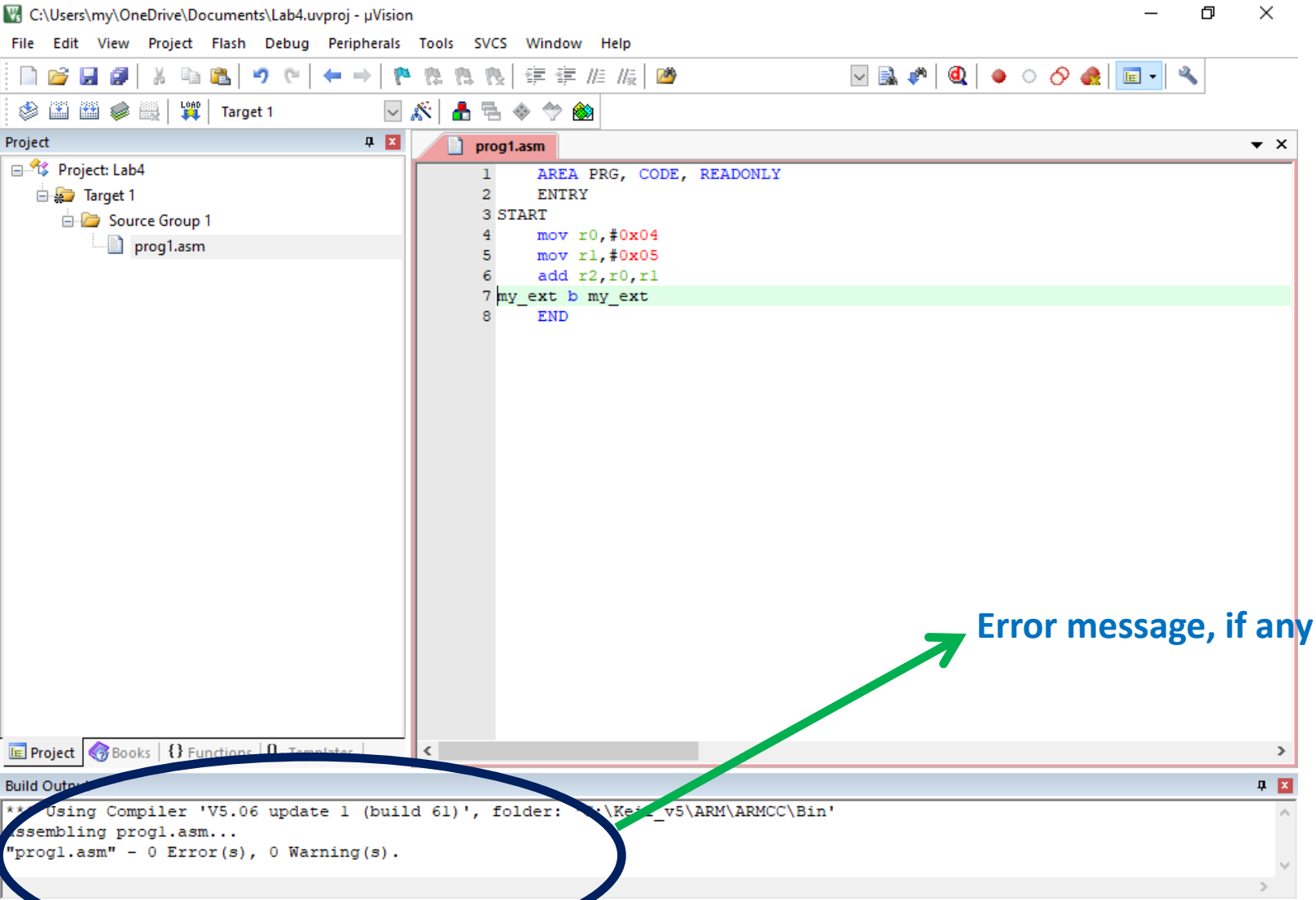
Compile the program: 1. Translate the program



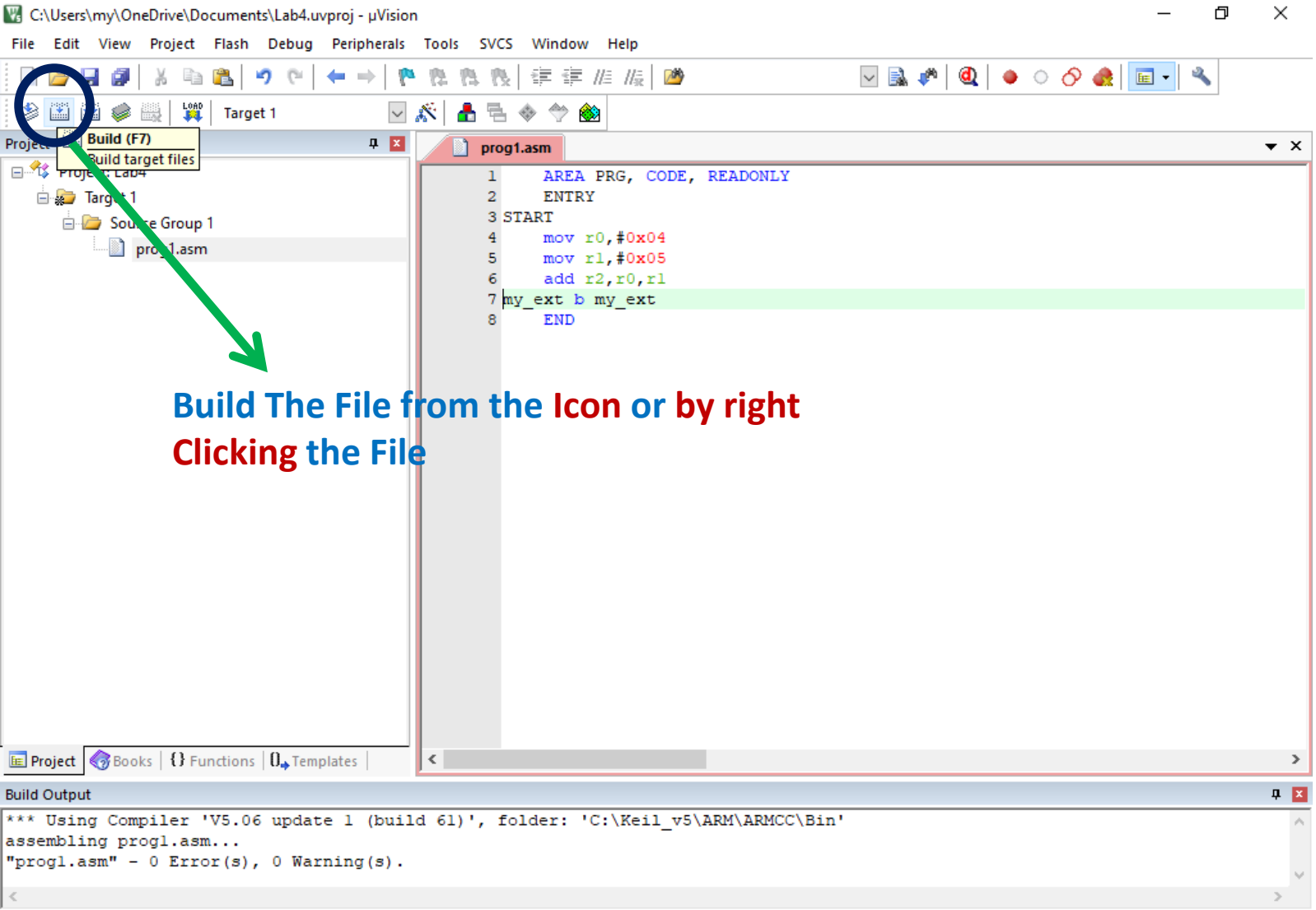
Or

Translate The File from the Icon

Compile the program: 1. Translate the program

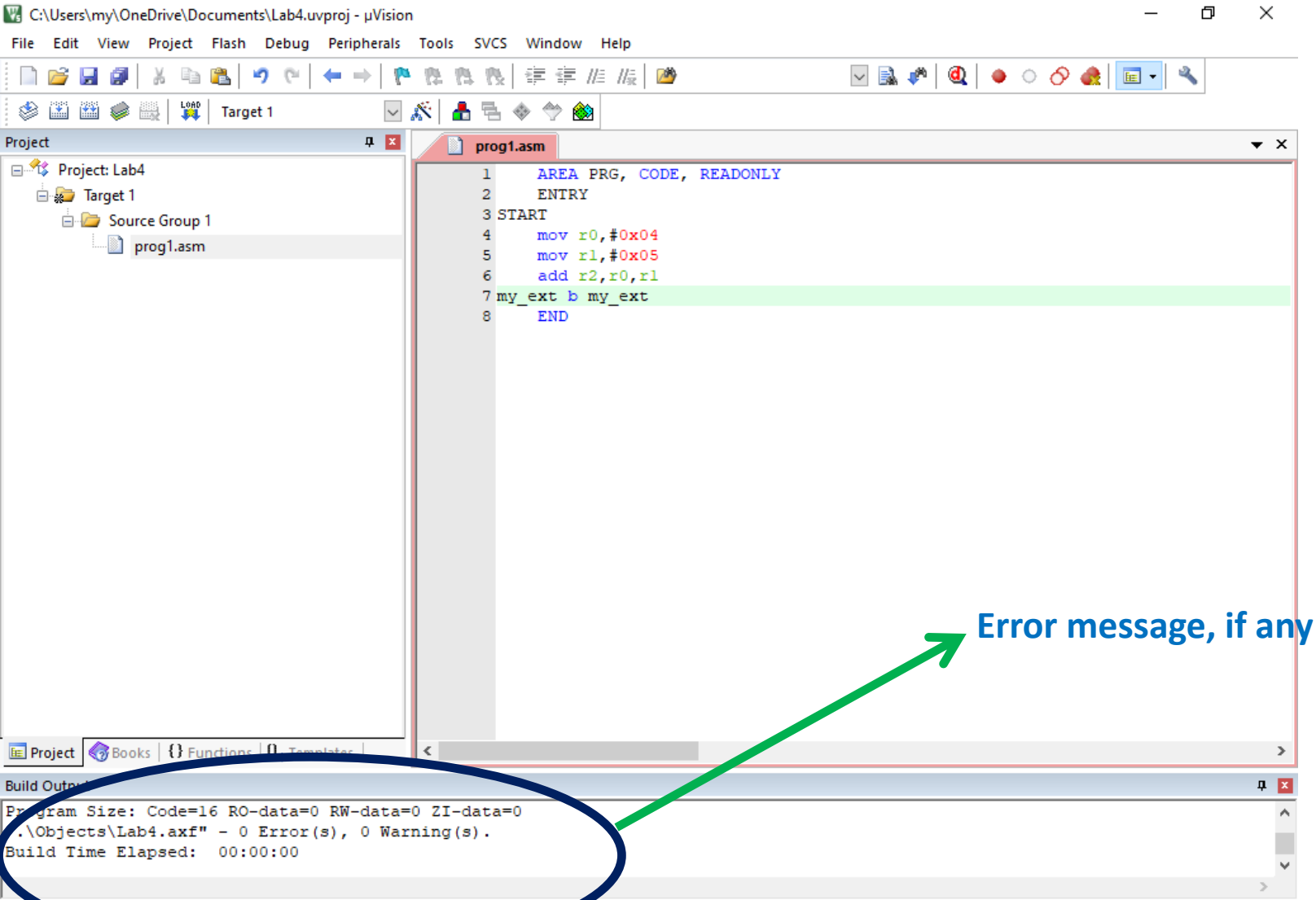


Compile the program: 2. Build the program to create Target

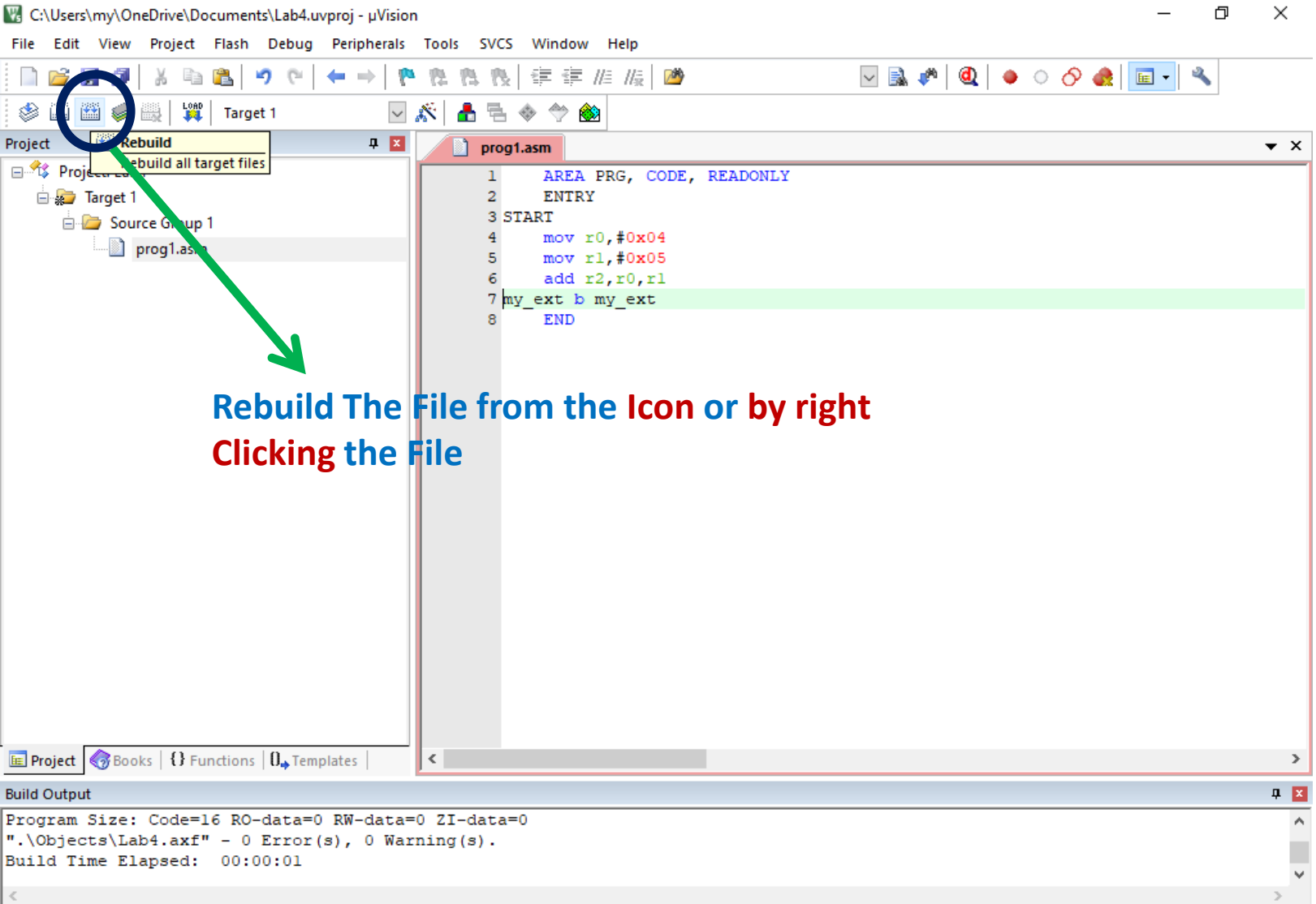


Build The File from the Icon or by right Clicking the File

Compile the program: 2. Build the program to create Target

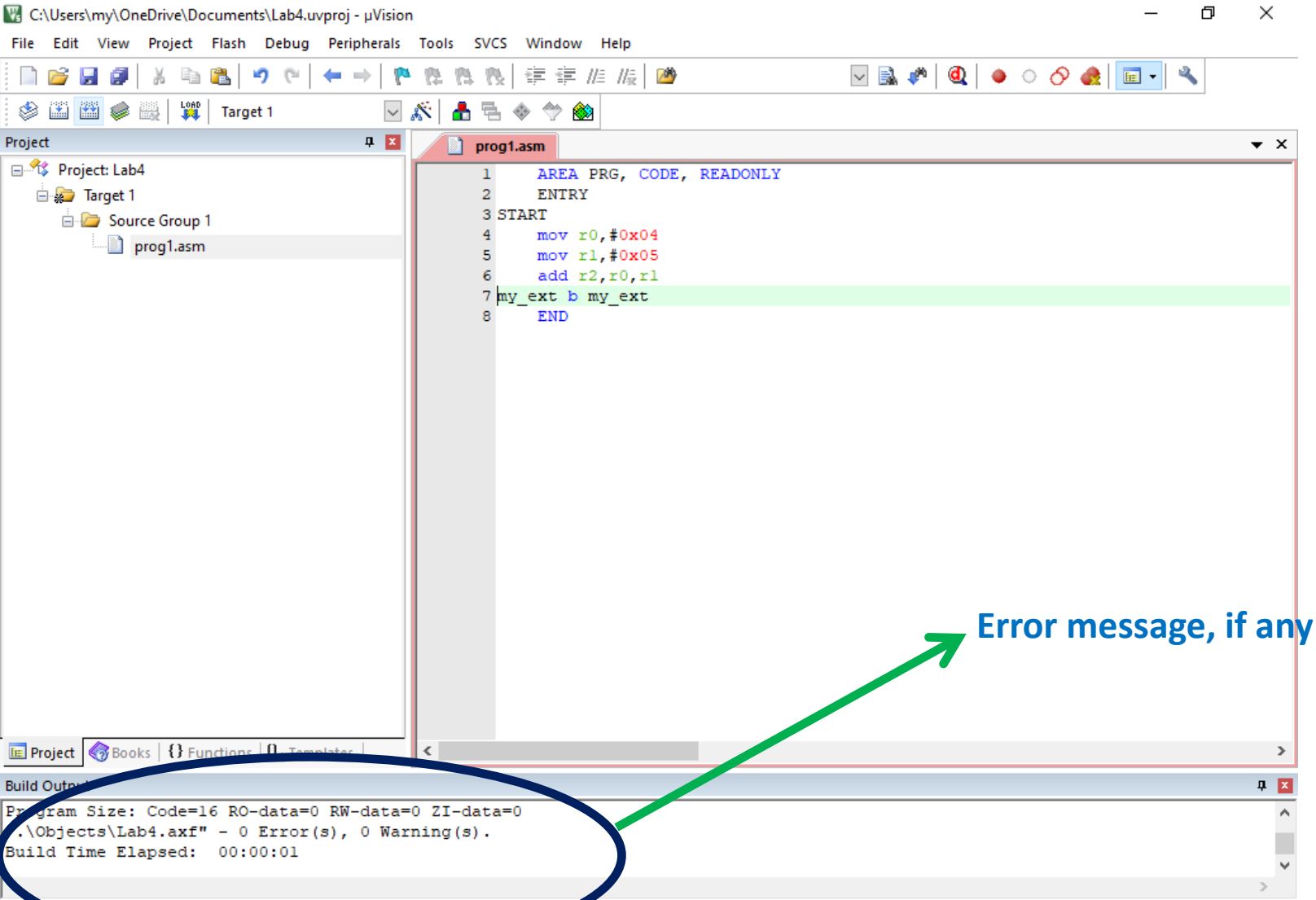


Compile the program: 3. Rebuild the program to create Target

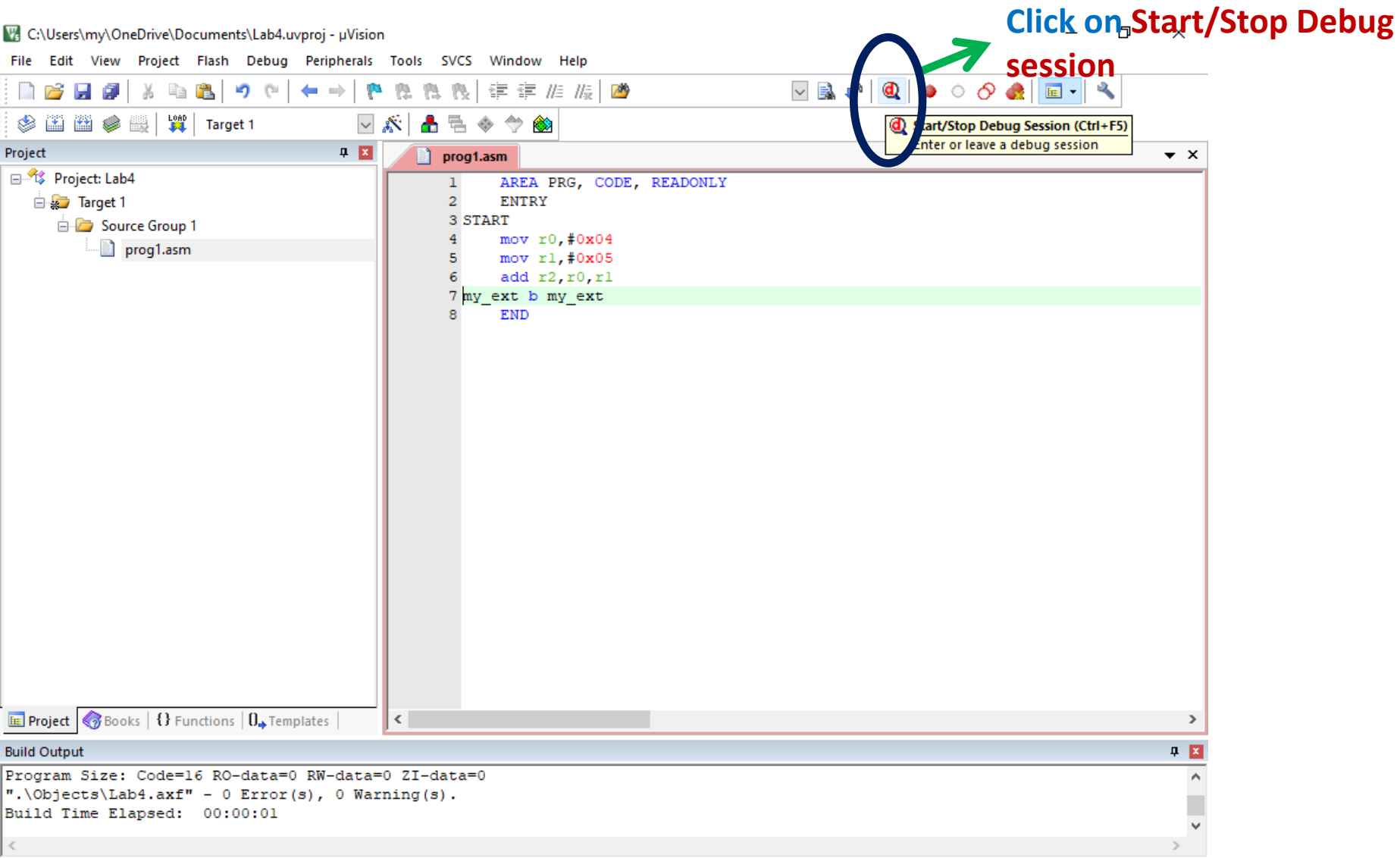


Rebuild The File from the Icon or by right Clicking the File

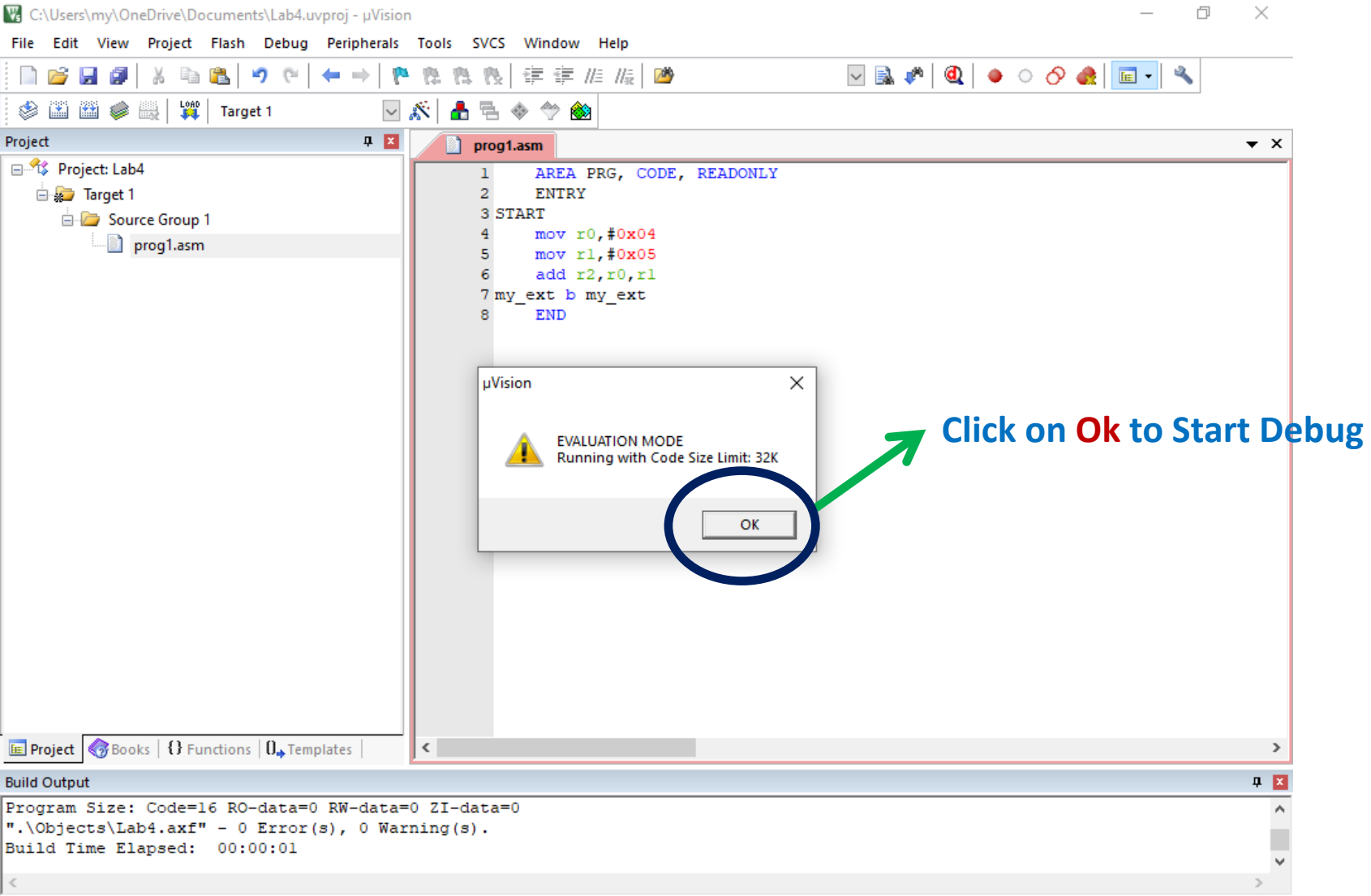
Compile the program: 3. Rebuild the program to create Target



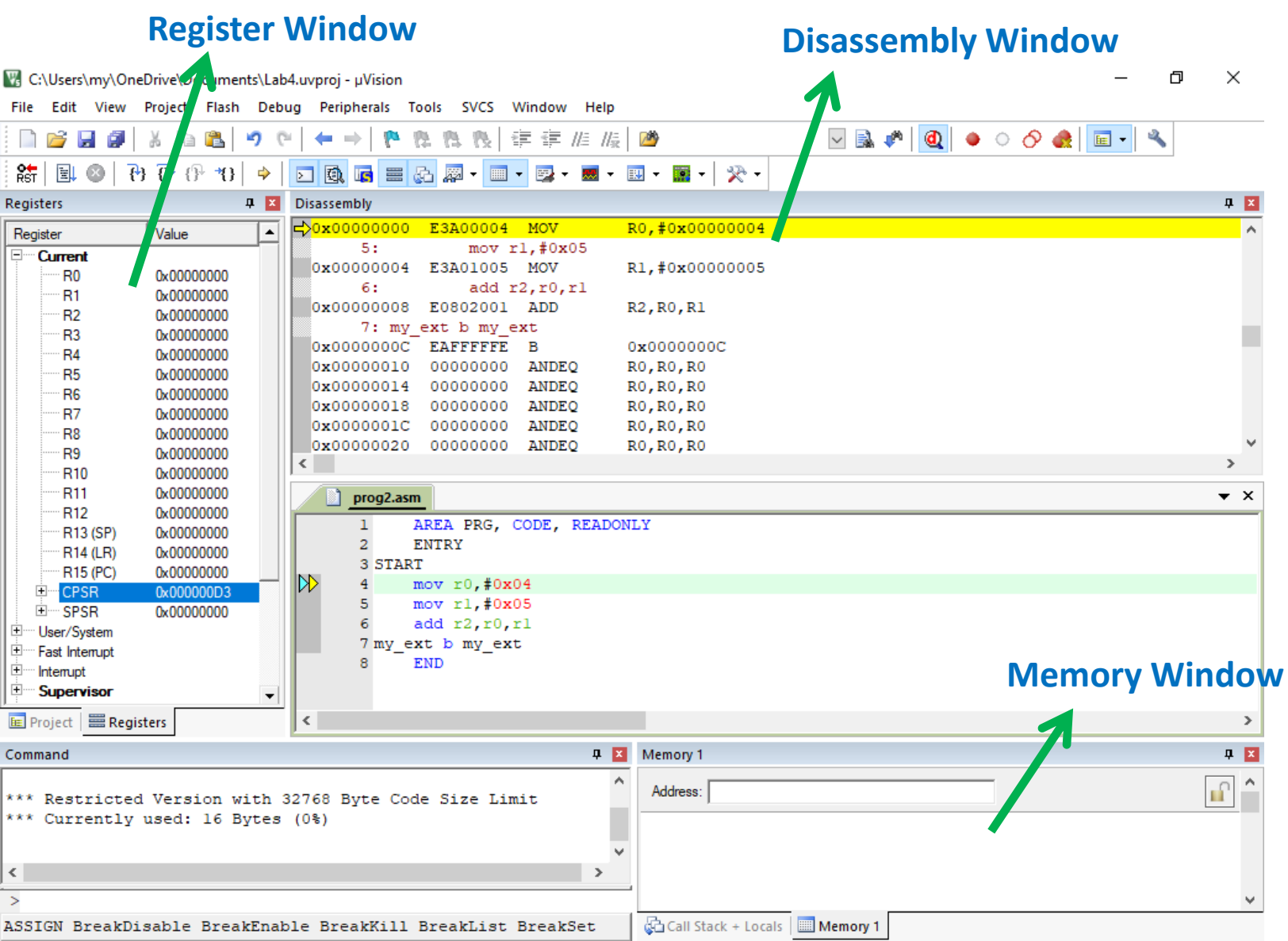
Execute the program: 1. Start Debug Session



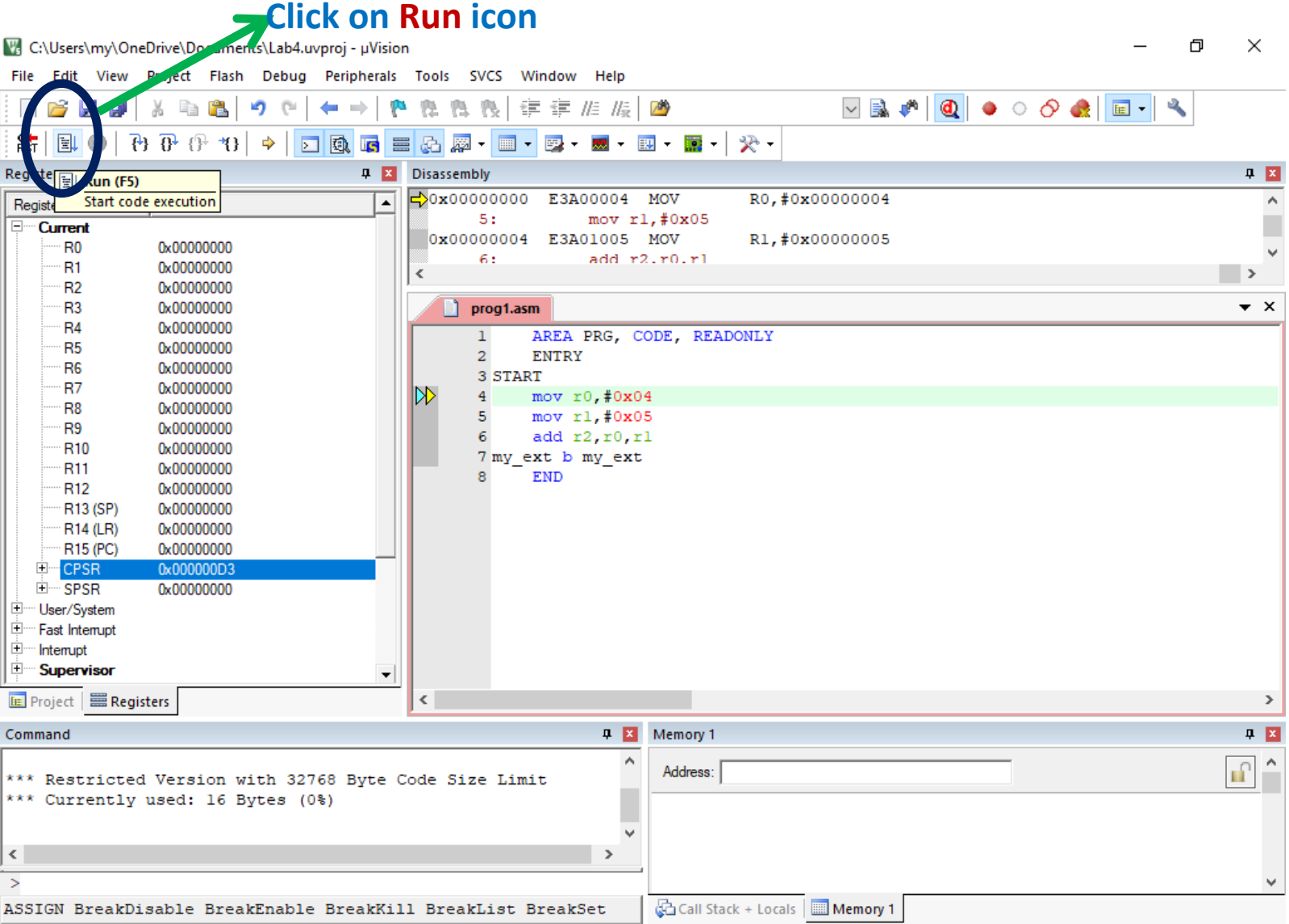
Execute the program: 1. Start Debug Session



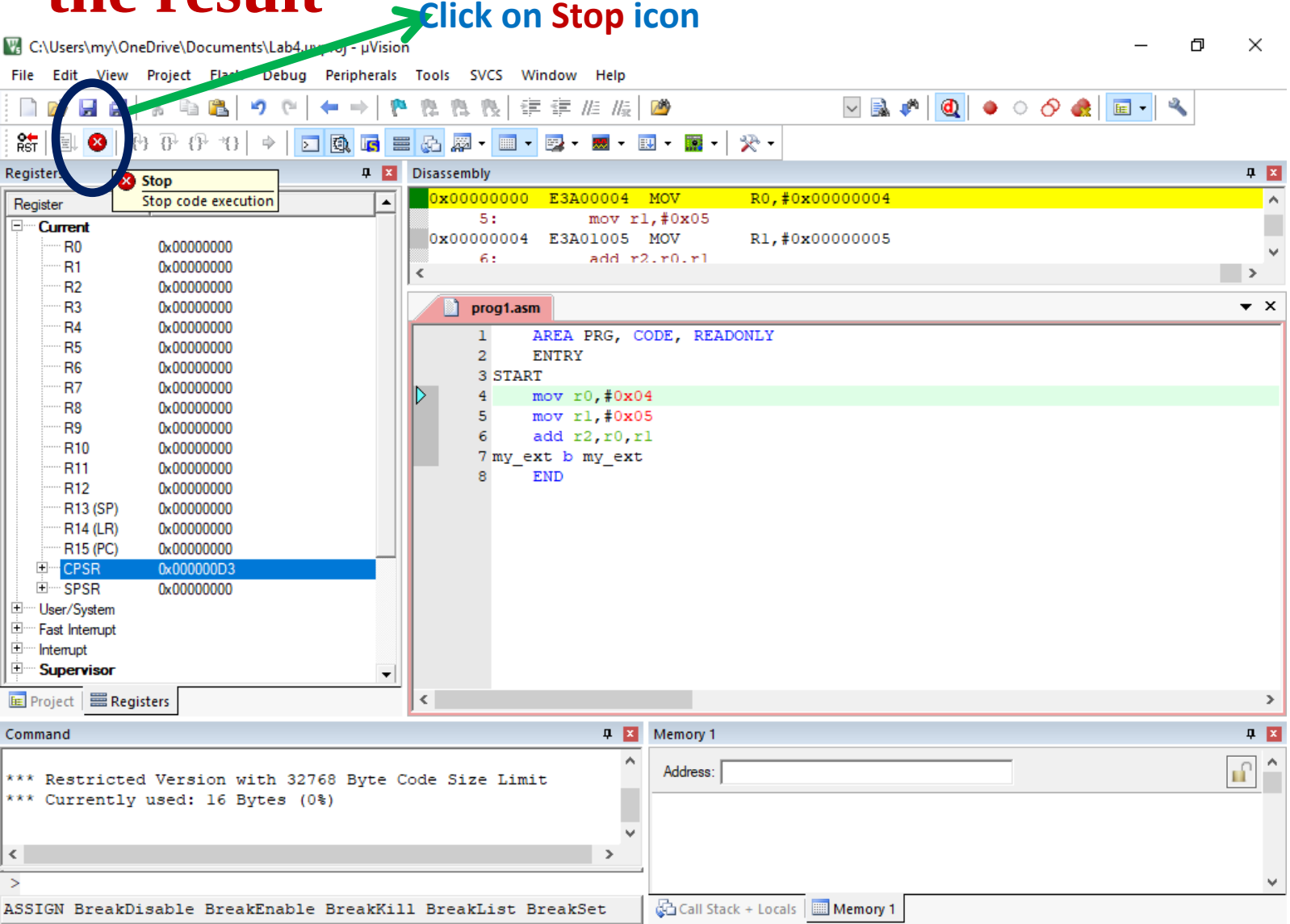
Execute the program: 1. Start Debug Session



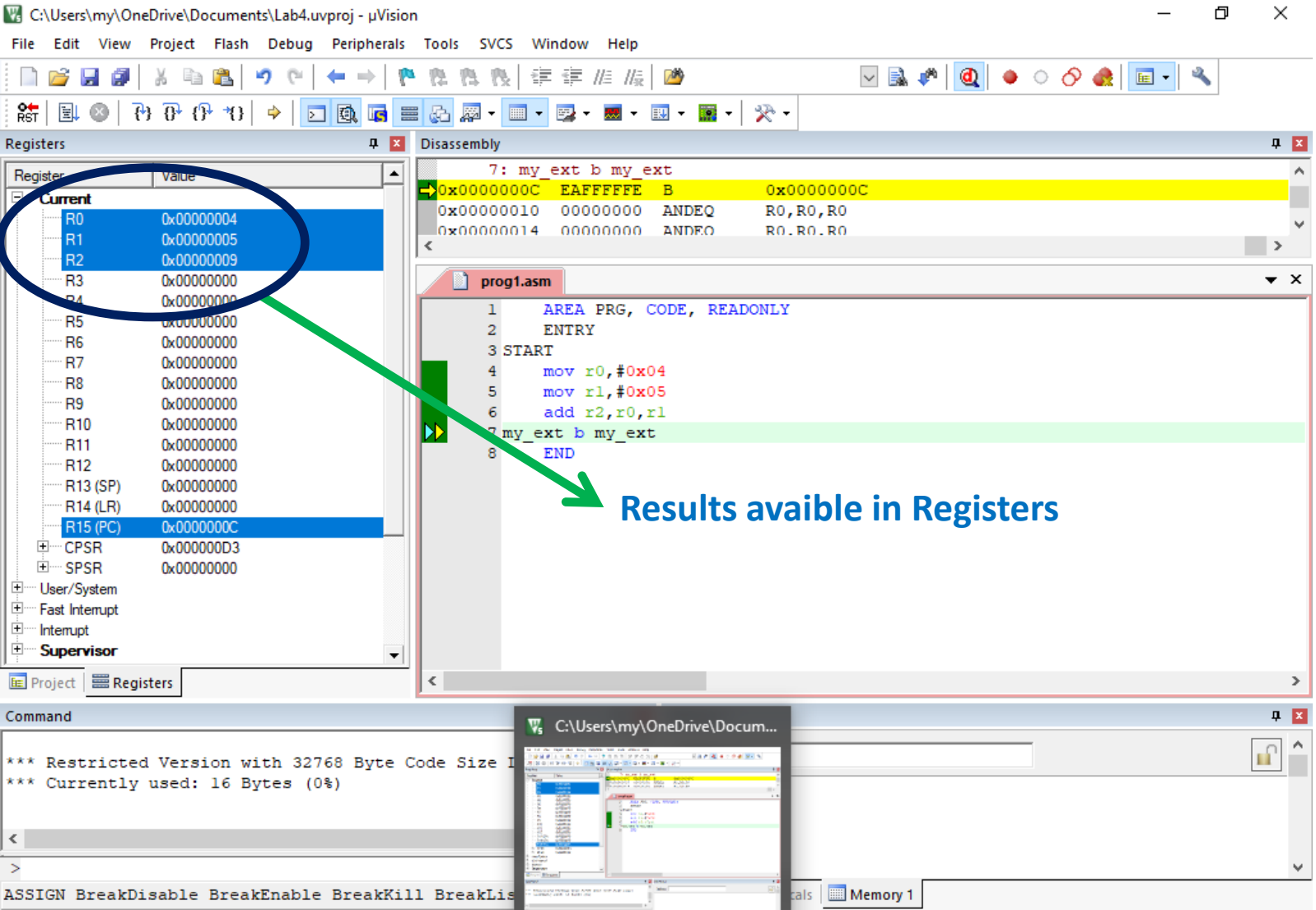
Execute the program: 2. Run



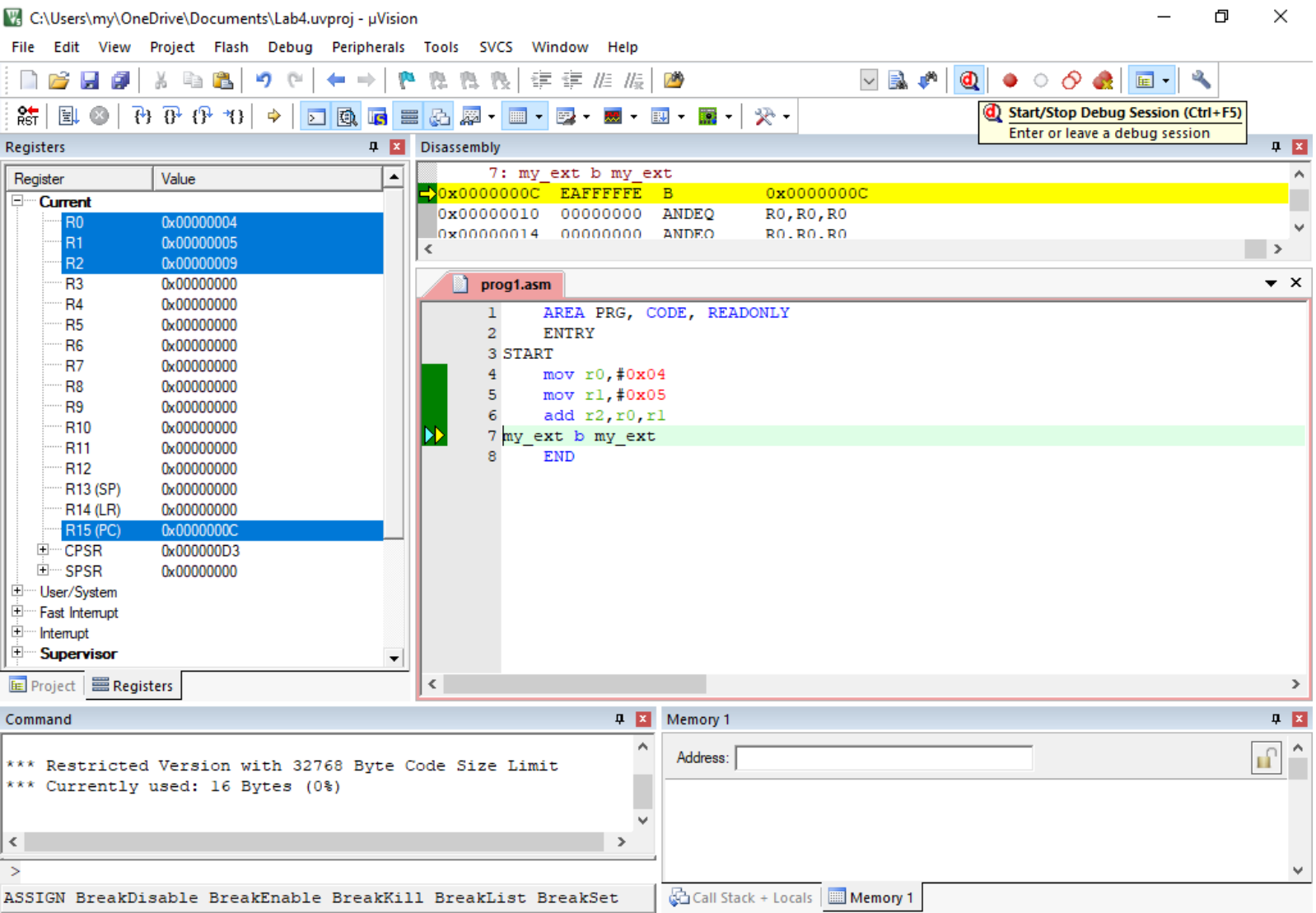
Execute the program: 3. Stop the Run to check the result



Execute the program: 3. Stop the Run to check the result



Stop Execution of the program: Stop Debug session



Stop Execution of the program