

ARM7 – LPC2134 Trainer kit User Manual

Driver Installation

This trainer kit has one USB to UART converter for downloading the user programs. This converter output is connected to UART0 of CPU **LPC2134**. We have to install the driver for this hardware which is located in “**Driver_FT232_new**” folder. Open this folder & run the application “**CDM21228_Setup**”. This will install the driver for USB to UART converter.

After installation connect the trainer kit to PC – USB port & open “**Device Manager**” in PC control panel. Note down the USB Serial COM port number shown in Port listing. We have to use this port for downloading our program.

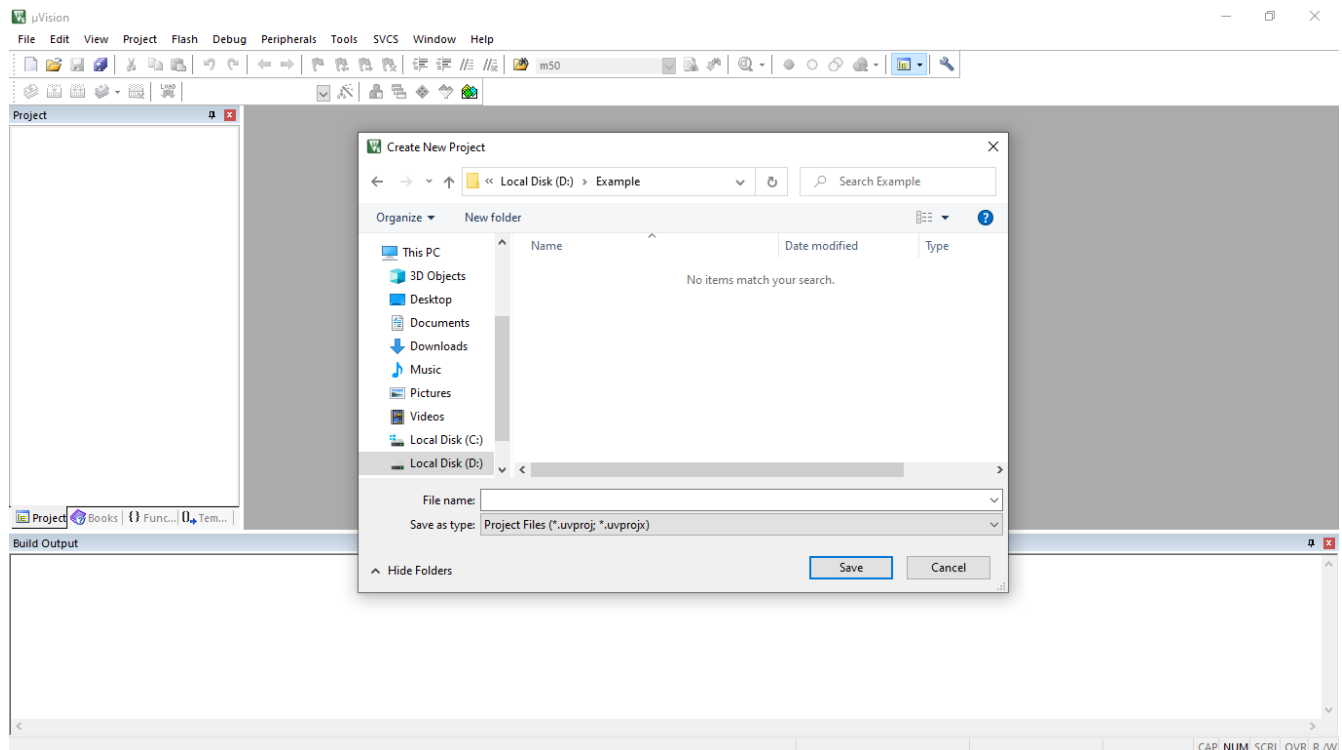
Note: *This is one time installation on PC side. Do not Connect the Trainer Kit before driver installation.*

Keil uvision software Project Creating

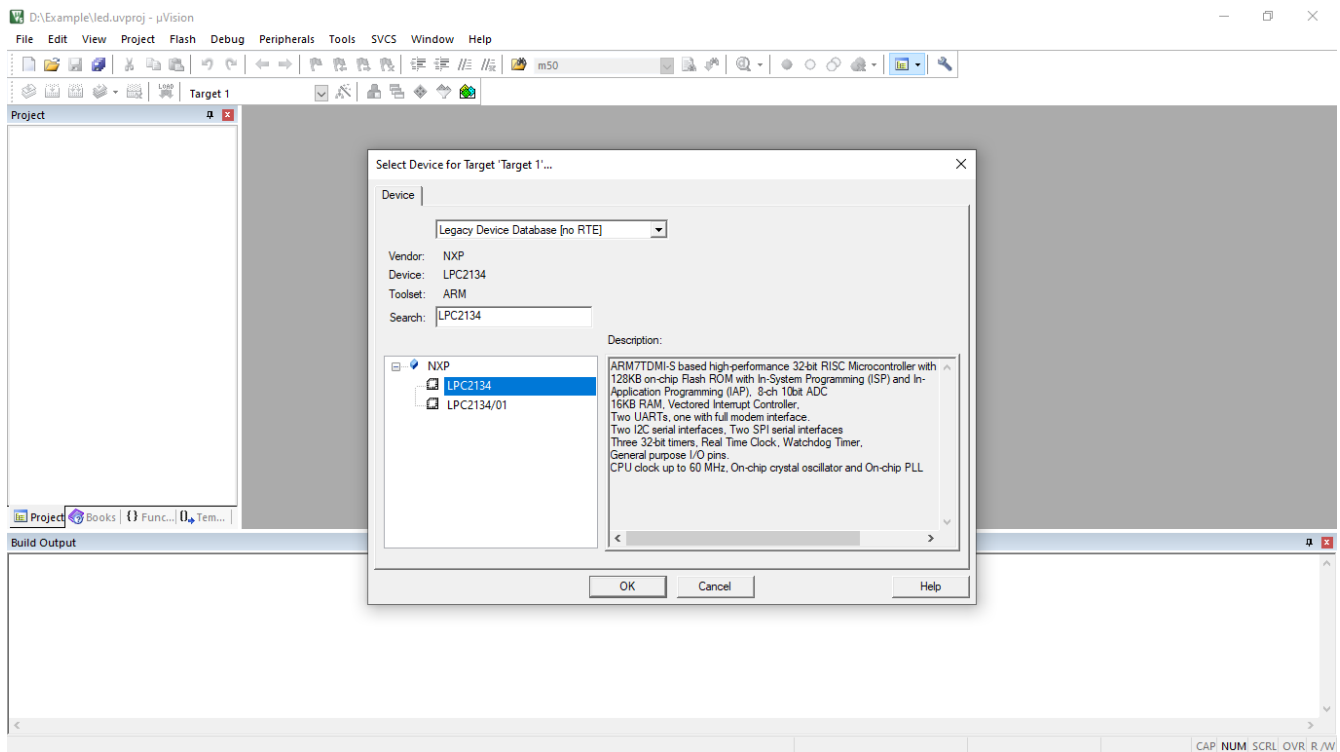
Create one folder in 'D' Drive – like “**D:\Example**”

copy any one of the sample program given to [D:\Example](#) Folder
For example **Exp3 “led_main.c”** to the [D:\Example](#) Folder

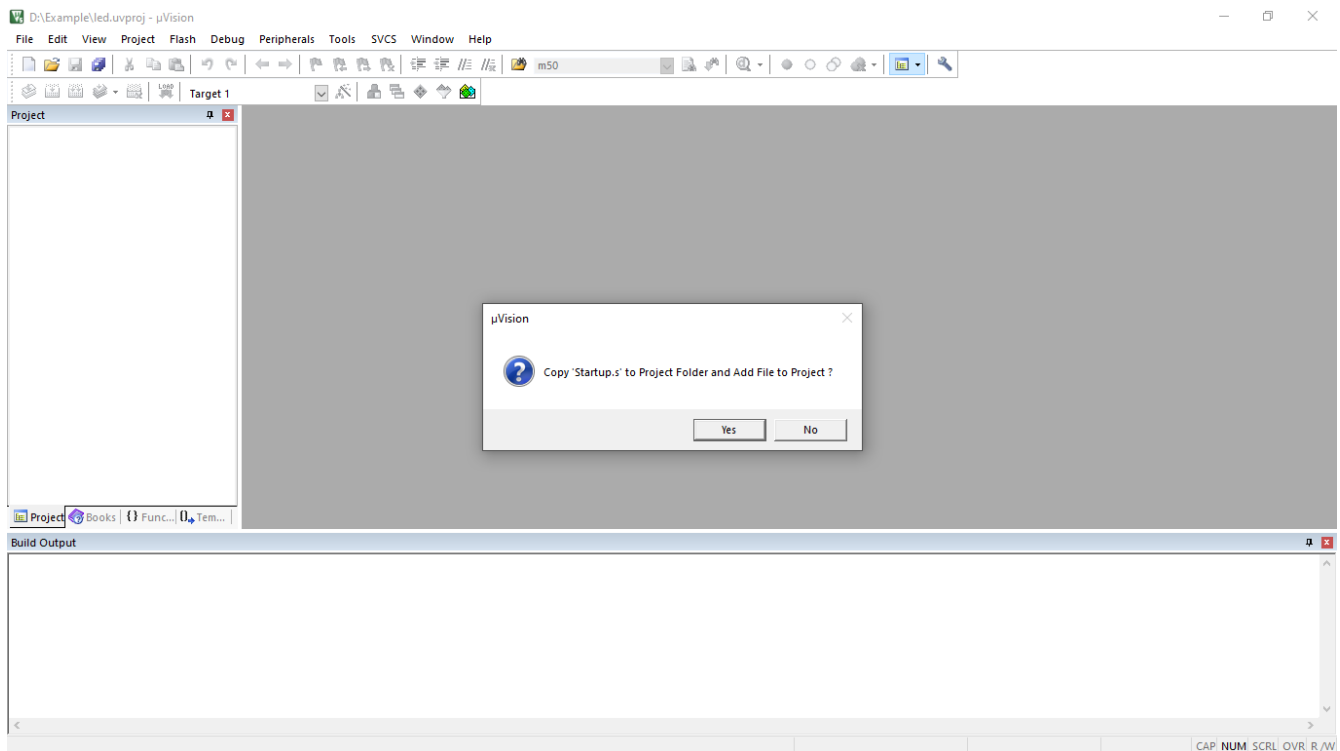
Open the Keil uvision software. Close if any project is already open. Use menu option “Project-Close Project”.



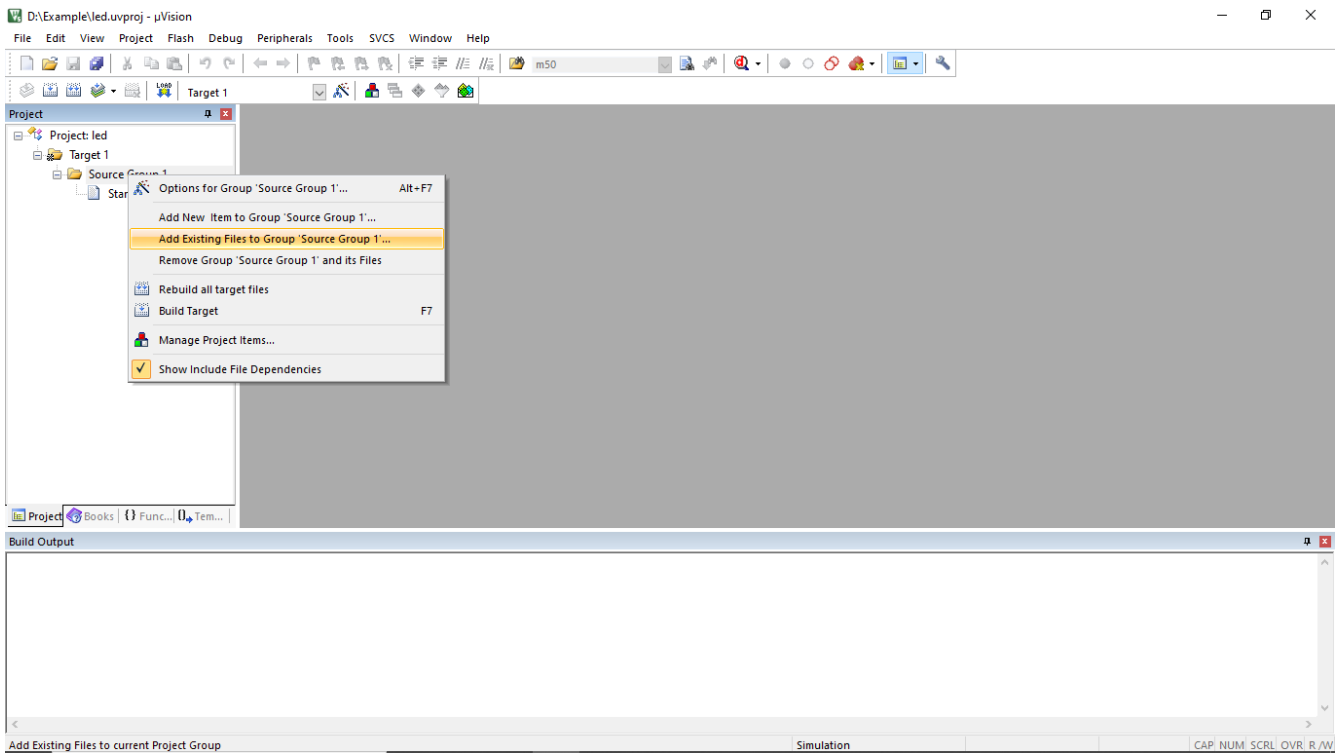
Menu – Project – Create New Project. Browse “[D:\Example](#)”
Give Project name LED



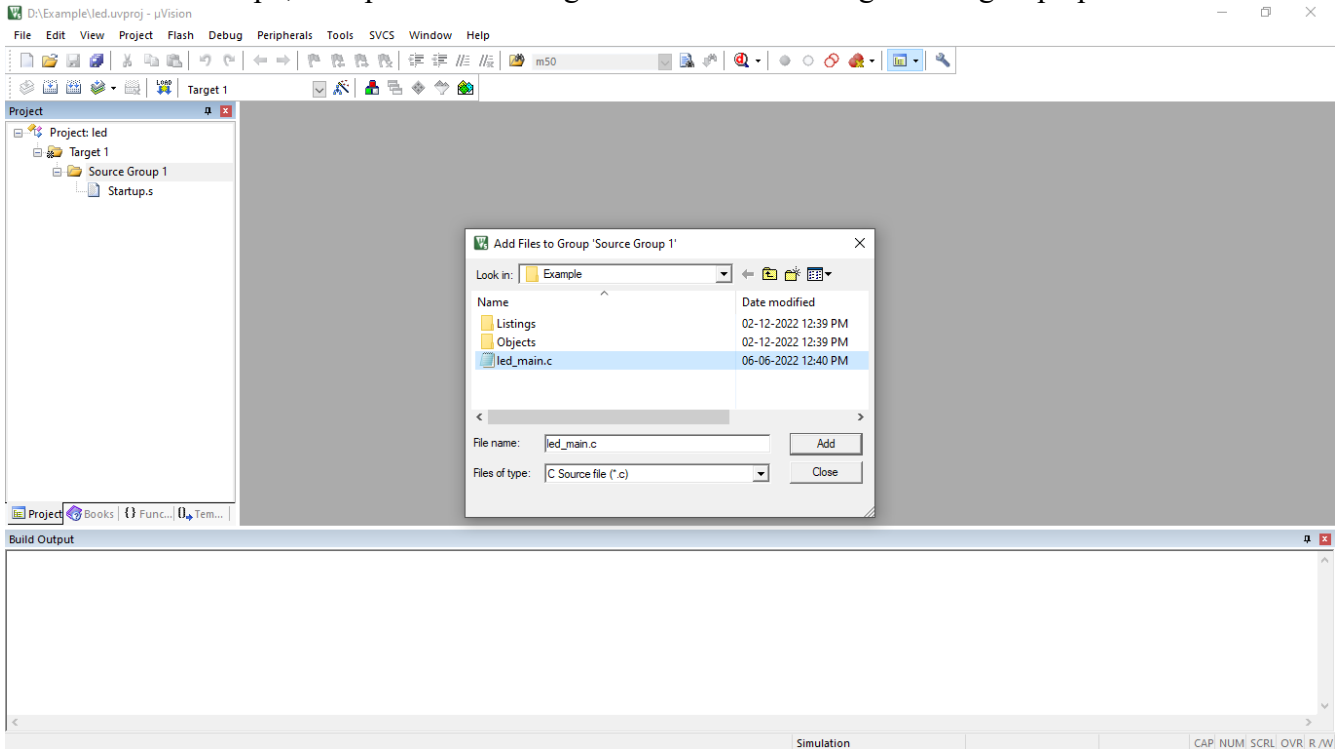
In Device menu Select Legacy Device – Search window type **LPC2134** and **Select**.
This is the processor present on trainer kit



Select Yes

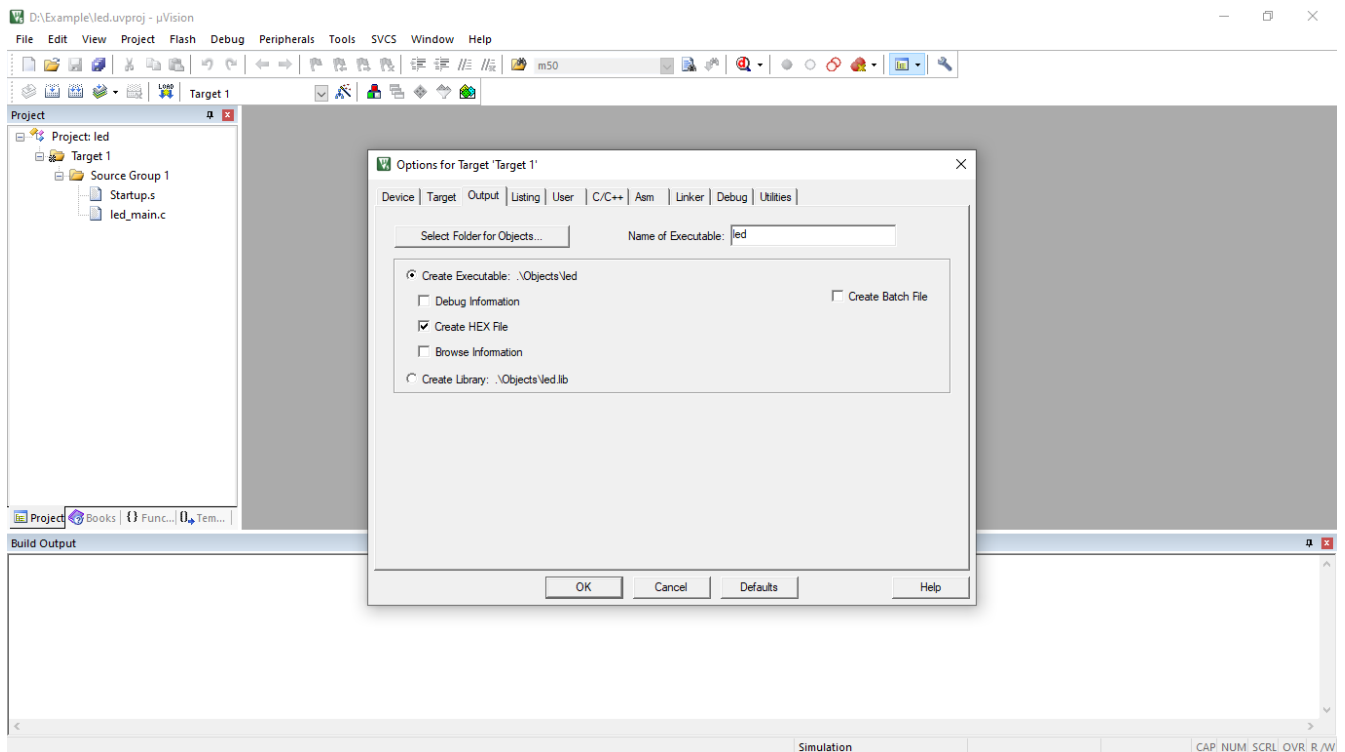


Select Source Group1, then press Mouse Right Click. Add Existing files to group option.

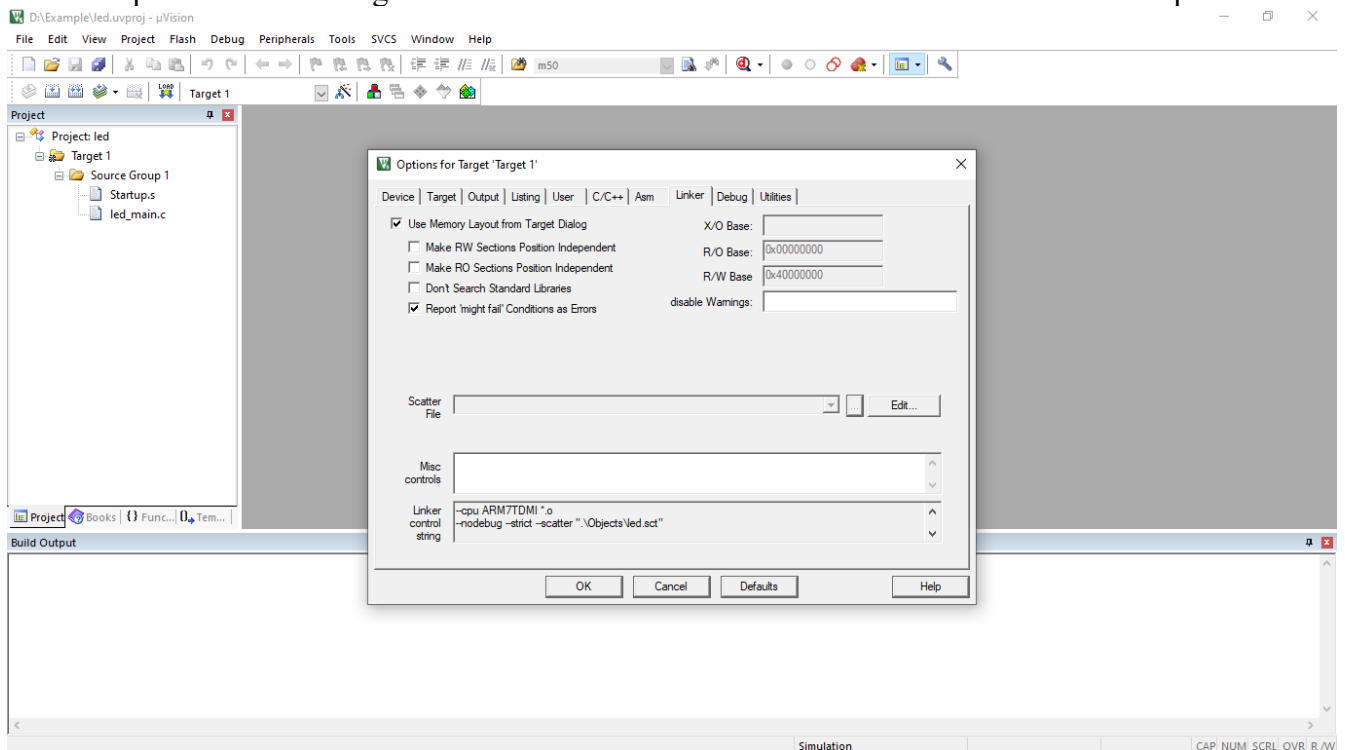


Browse Example folder select sample program “led_main.c”, then Press Add button
Then close the browser window.

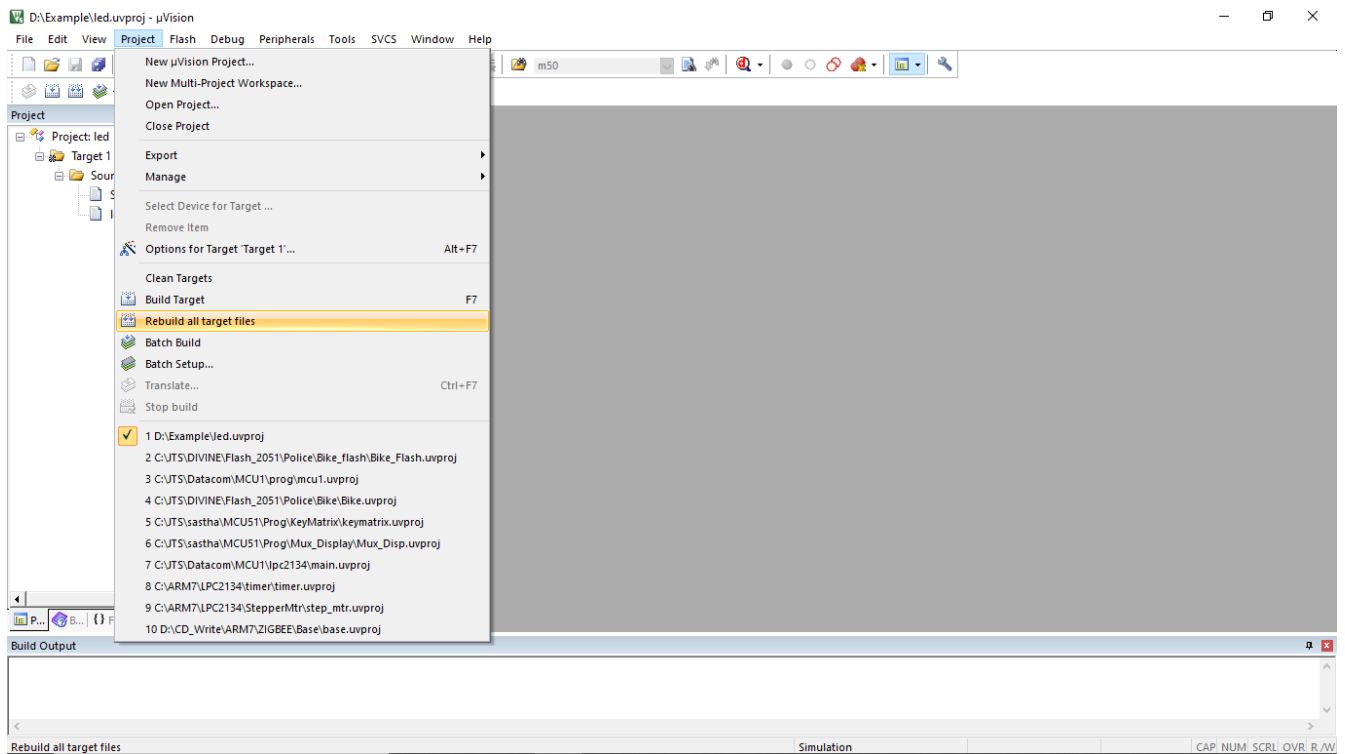
Click Flash option in menu. Select configure flash tool.



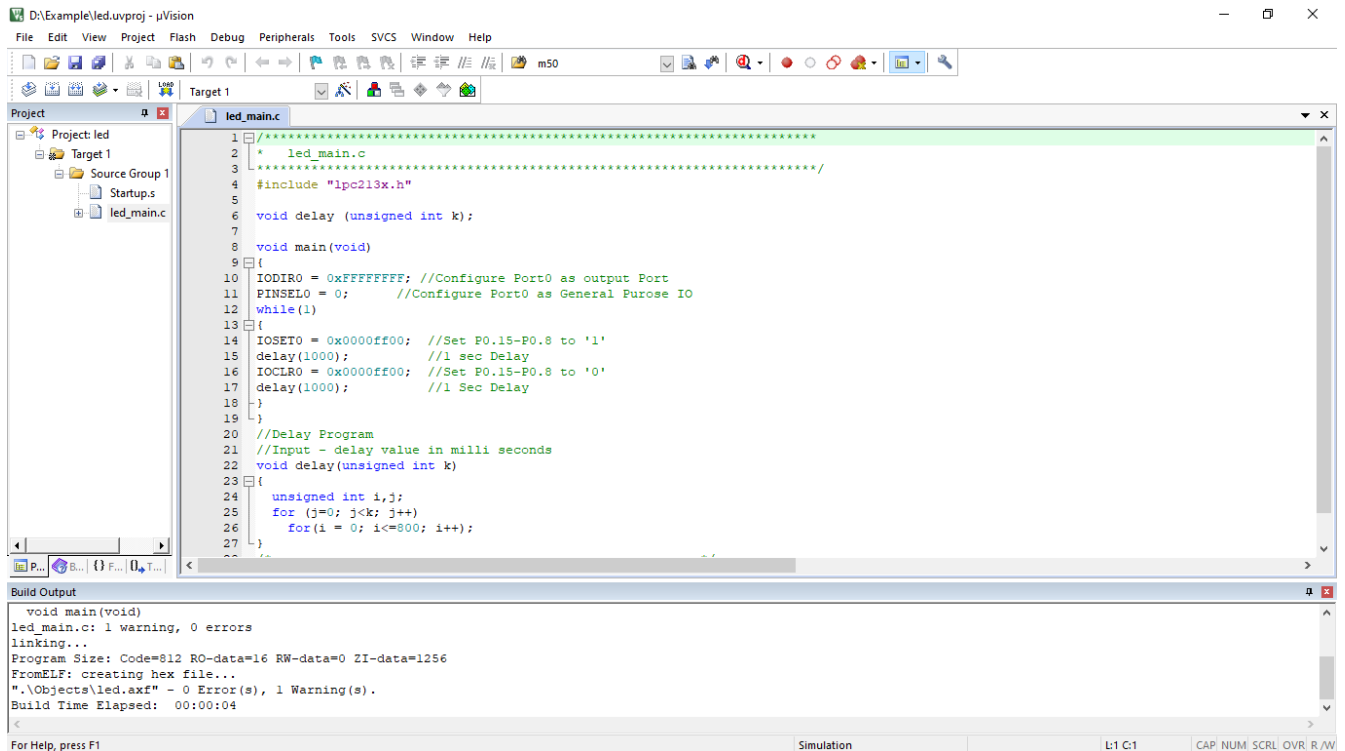
Click Output de-select Debug information & Browse information. Select Create Hex File option



Select Linker option Enable Use Memory Layout from Target Dialog & Report might fail conditions as error. Then Click OK Button.

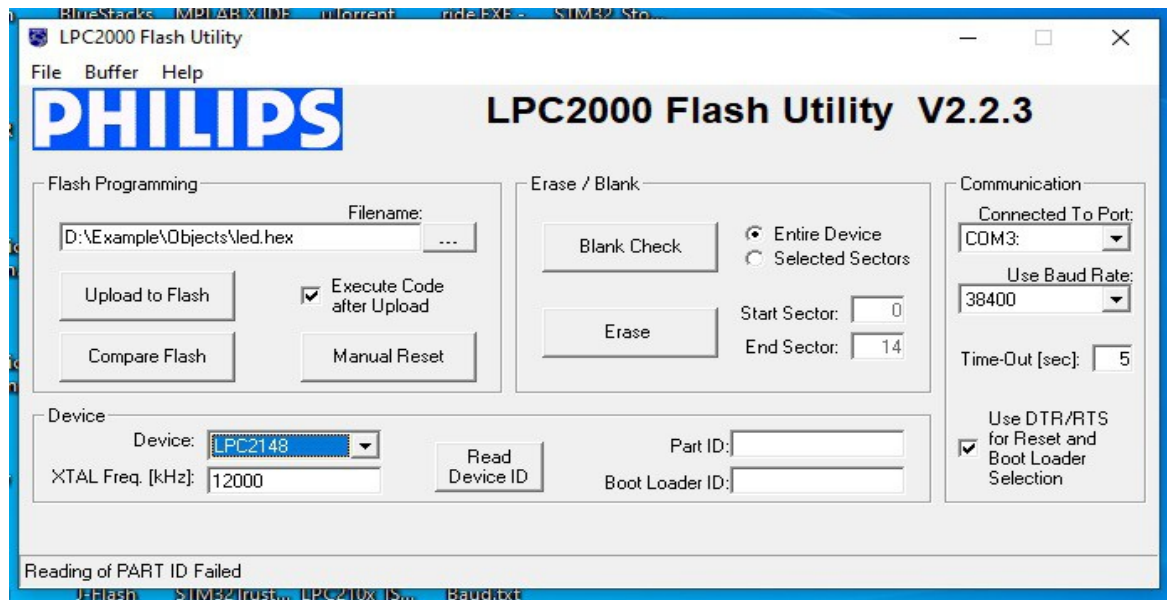


Click Menu – Project – Rebuild all target files, This will compile the source program & generates the “led.hex” file.



Connect the trainer kit to PC – USB port & Power ON the Kit. Now open “Device Manager” in PC control panel. Note down the USB Serial COM port number shown in Port listing. We have to use this port for downloading our program.

Now open the LPC2000 Flash utility and Select the COM port number shown in “**Device Manager**”.



Click Browse button on Filename window, Select “D:\Example\Objects\led.hex file” .

Click Read Device ID, Then Device become LPC2134.

Use all settings as above in the picture.

Now Click “Upload to Flash” button. This will download the program to Trainer Kit.