A) Steps For .asm files

STEP 1:

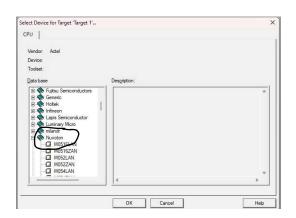
Open Keil Software -> Go to project Tab -> New μ Vision Project -> Go to nu folder on Desktop -> Nuvoton Platform -> Sample -> EduSample -> Create a new folder -> create a file(without extension)

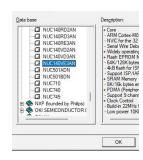


STEP 2:

A dialogue box will appear where we need to select Device for Target.

Under Database -> Select Nuvoton -> Select it last Version (NUC140VE3AN) -> click OK

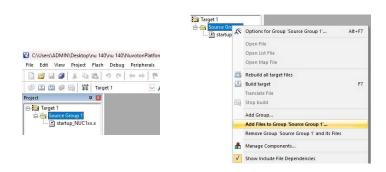




STEP 3:

click on Target1 -> Source Group1 (right click) -> Add files to group 1 -> Go to nu140 -> CMIS -> CMO -> CoreSupport -> core_cm0.c

Do the same thing again but this time -> DeviceSupport -> Nuvoton -> NUC1xx -> system_NUC1xx.c



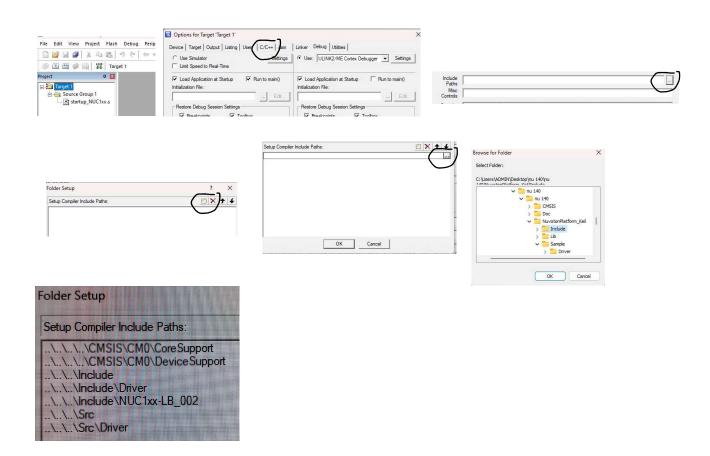


STEP 4:

Target1(right click) -> options for target 1 -> C/C++ -> Include Paths (click on 3 dots) -> new Path (dotted rectangle) -> Go to nu140 -> CMIS -> CMO -> CoreSupport

Target1(right click) -> options for target 1 -> C/C++ -> Include Paths (click on 3 dots) -> new Path (dotted rectangle) -> Go to nu140 -> CMIS -> CMO -> DeviceSupport

Target1(right click) -> options for target 1 -> C/C++ -> Include Paths (click on 3 dots) -> new Path (dotted rectangle) -> Go to nu140 -> NuvtonPlatform_keil -> Include



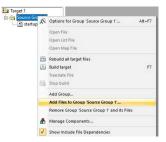
STEP 5:

click on new file -> type your code -> save in same path as in STEP 1

More specifically (to save): Go to nu folder on Desktop -> Nuvoton Platform -> Sample -> EduSample -> your previously created folder -> save with exetension (.asm)

STEP 6:

Source Group 1(right click) -> Add files to group 1 -> Choose yourfile.asm -> Add



STEP 7:

click on build (top left corner) -> if build sucessfull -> click on debug (red color, middle of title bar)



Reference Video: https://youtu.be/YSlkYs4NAzU?si=RZrJUMQkFCy58SFR

B) Steps For Nuvtron codes (Device):

Follow above steps 1,2,3,4,5,6,7

Note: In step 6 keep file extension as (.c)

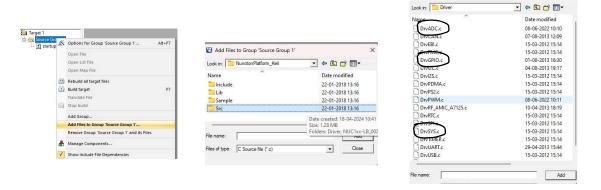
Step 8:

In Step 3 again:

Source Group1 (right click) -> Add files to Source Group 1 -> Go to nu140 -> SRC file -> Driver file -

Add Files to Group 'Source Group 1'

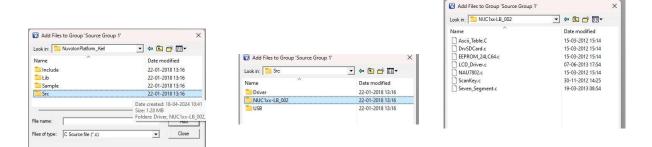
> add (DrvSYS.c , DrvGPIO.c , DrvADC.c) *required files



Similarly, according to the programs add the files like:

For Lcd Display:

Source Group1 (right click) -> Add files to group 1 -> Go to nu140 -> SRC file -> file -> led.c For 7 segment display: add seven_segment.c

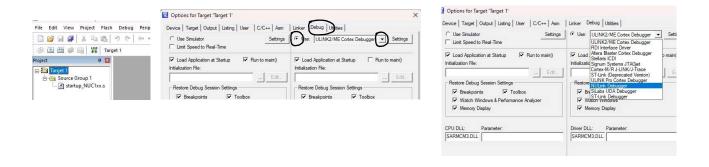


Note: Check the include division of the code you want to perform and add files according to it.

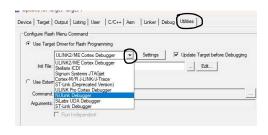


Step 9:

Target1(right click) -> options for target 1 -> Debug -> click on "O use " (right side of window) before debugger selection -> select "Nuvlinkere Debugger "as debugger in drop-down menu.



-> options for target 1 -> Utilities -> again select debugger as "Nuvlinker Debugger " in drop-down menu -> click ok -> save changes.



Step 10:

Save the file -> Attach the device with correct port -> Click on build -> Click on load button (near build) OR click on debug icon on right side of window.

