Manual for code composer

1) Download v12 from this link

https://dr-download.ti.com/software-development/ide-configuration-compiler-or-debugger/MD-J1VdearkvK/12.8.1/CCS12.8.1.00005_win64.zip

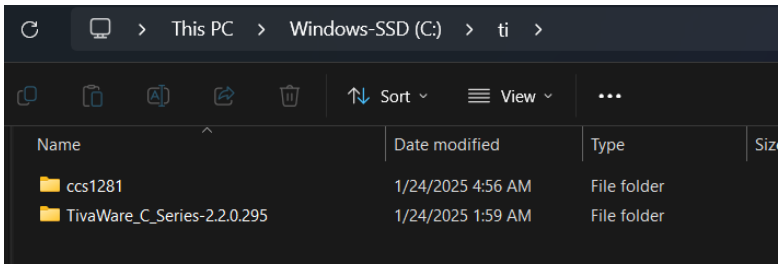
2) Download Tiva ware which contains all the libraries and other stuff

- You have to make an account to be able to download
- You must admit you are using it not for military purpose

https://dr-download.ti.com/secure/software-development/software-development-kit-sdk/MD-oCcDwnGrsI/2.2.0.295/SW-TM4C-2.2.0.295.exe

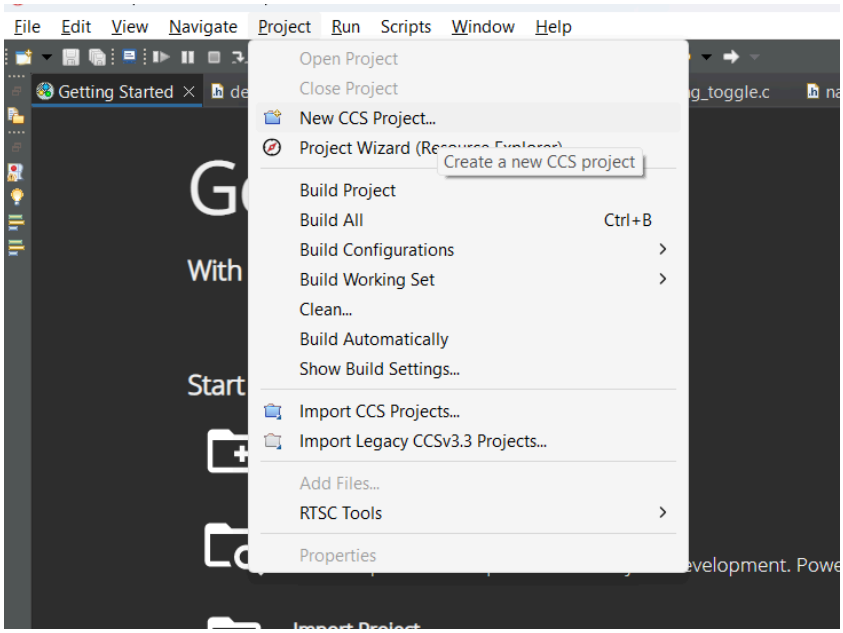
3) Set up both and make sure the tivaware is installed in the directory called ti in the c partition

Make sure that C:\ti contains these two files



4) Open CCS and choose a workspace where all your codes are kept in

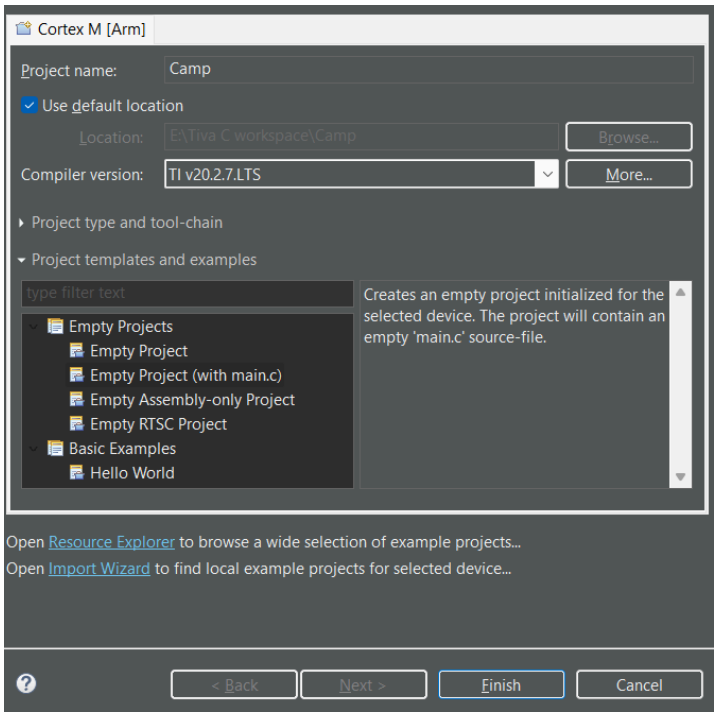
5) Start a new css project



6) Select a target to be TIVA-C series

7) Select the board type TM4C123GH6PM

8) Name the project

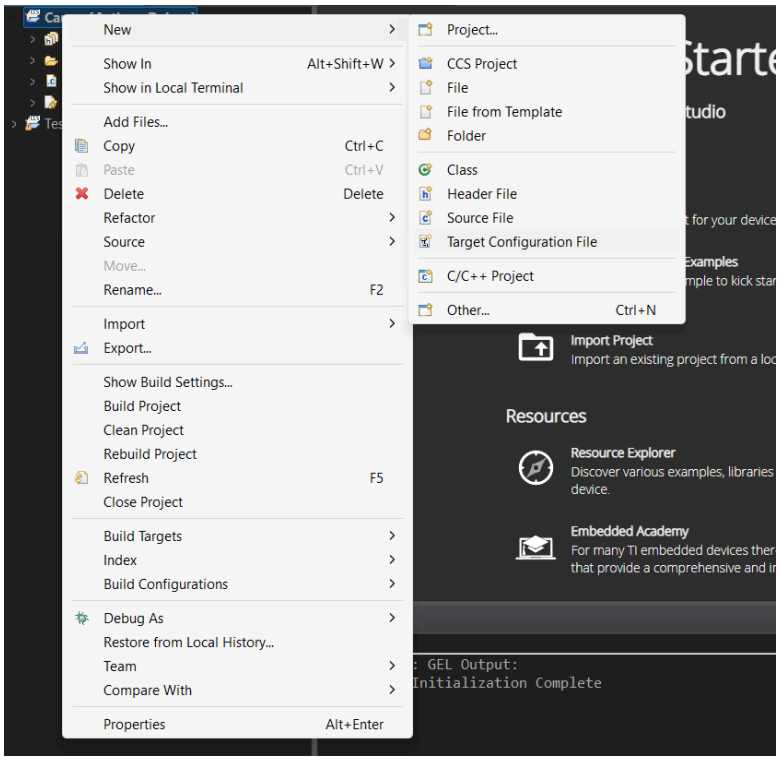


9) Click Finish

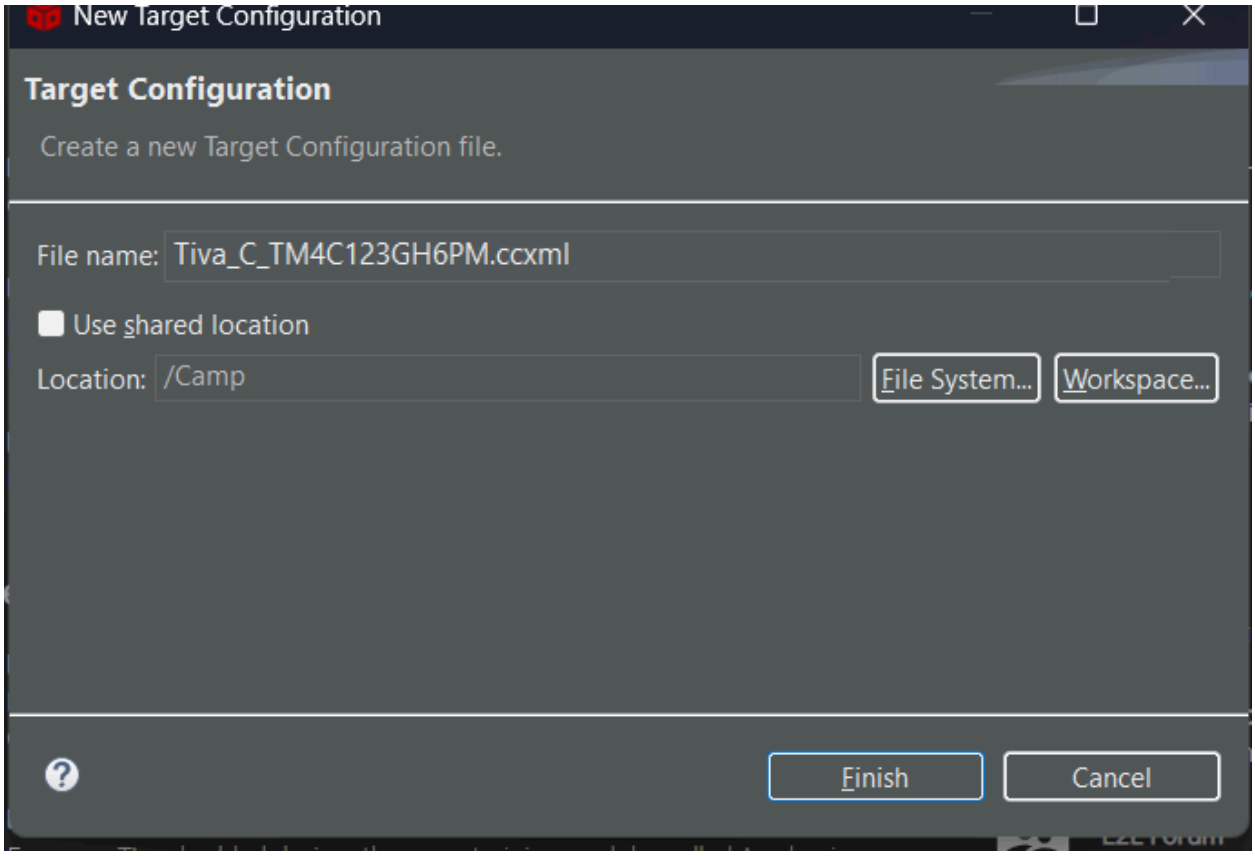
10) Then let's configure extra stuff in order to work with the Tiva c

11) Right click on the name of the project in the left area and click new then target configuration file

12) In your new project select properties

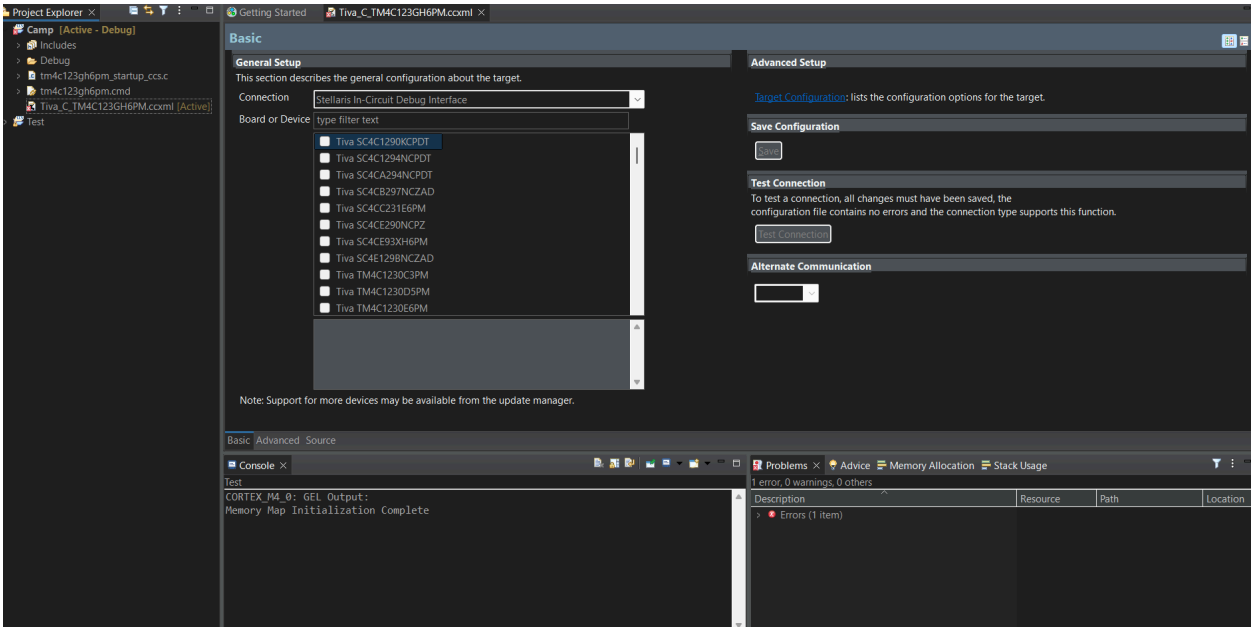


13) Name the file name like this Tiva_C_TM4C123GH6PM.ccxml

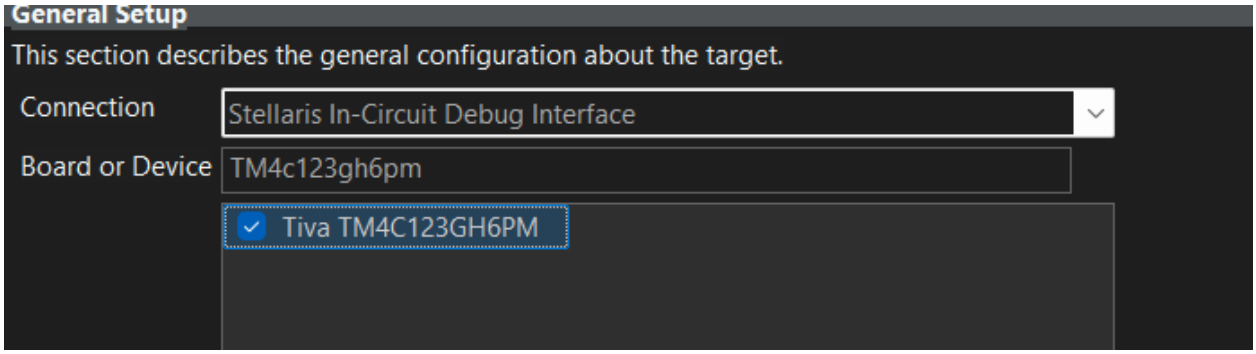


14) then this window appears

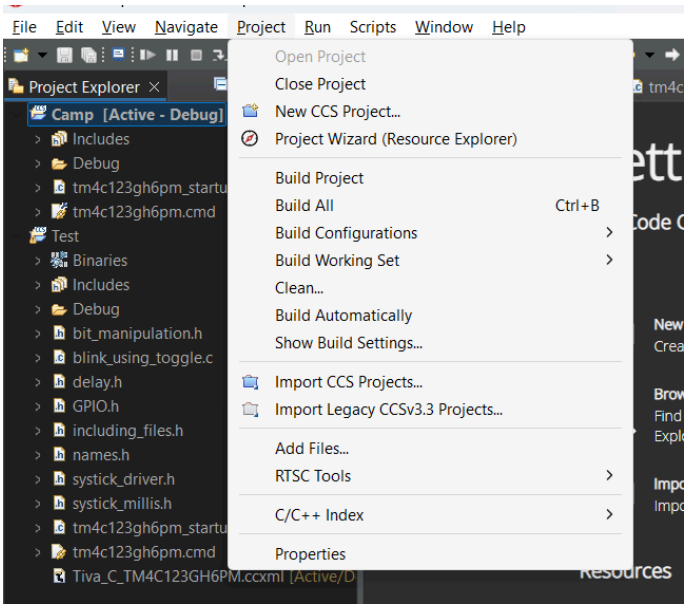
15) In connection choose Stellaris in circuit debug interface



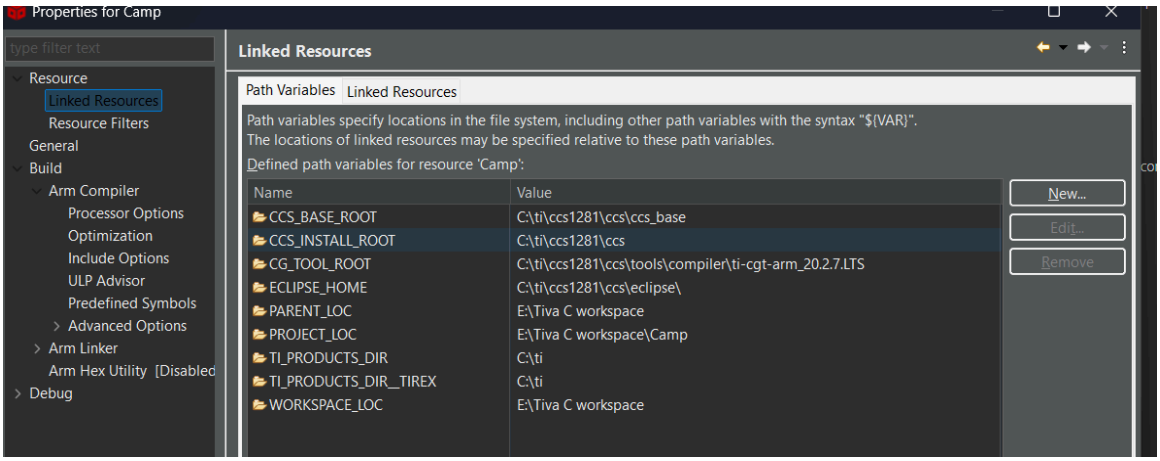
16) Then choose the board name and click save on the right



17) Then open the properties for the project again

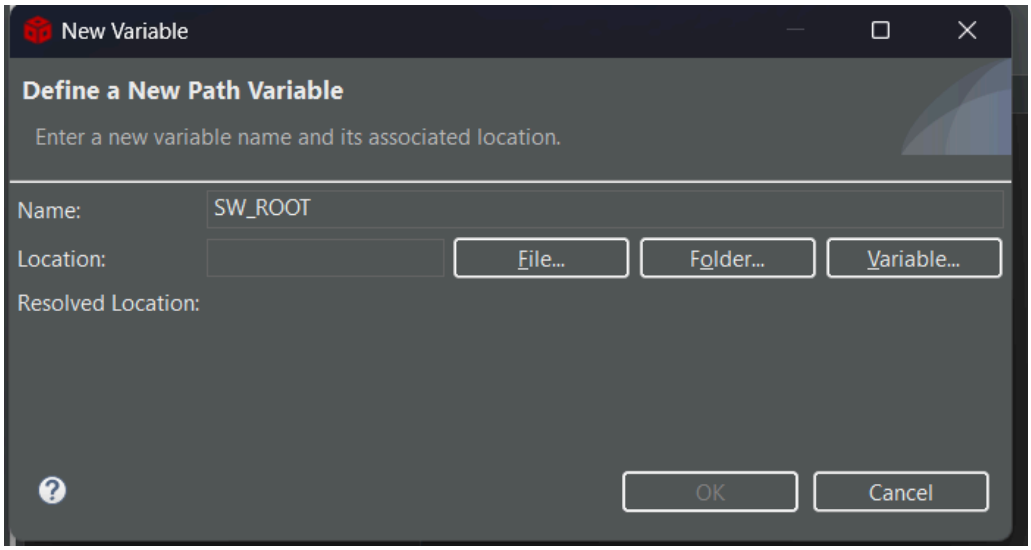


18) Click general then linked resources

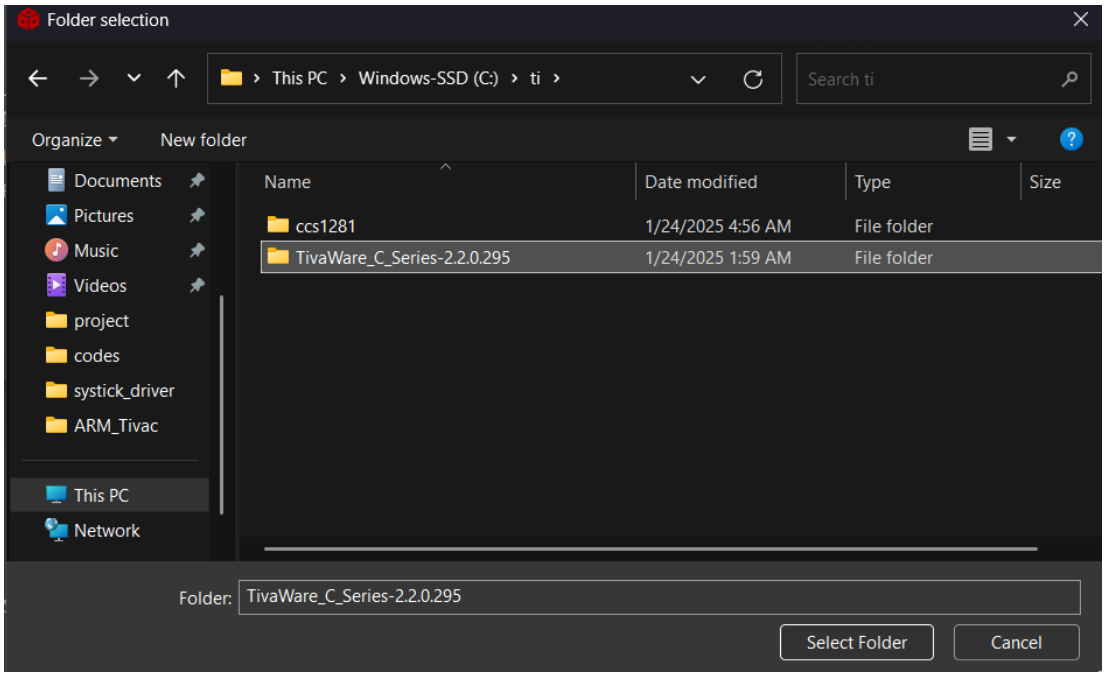


19) we are going to add a new path variable to hold the path for the downloaded tivaware files click on the new button on the right

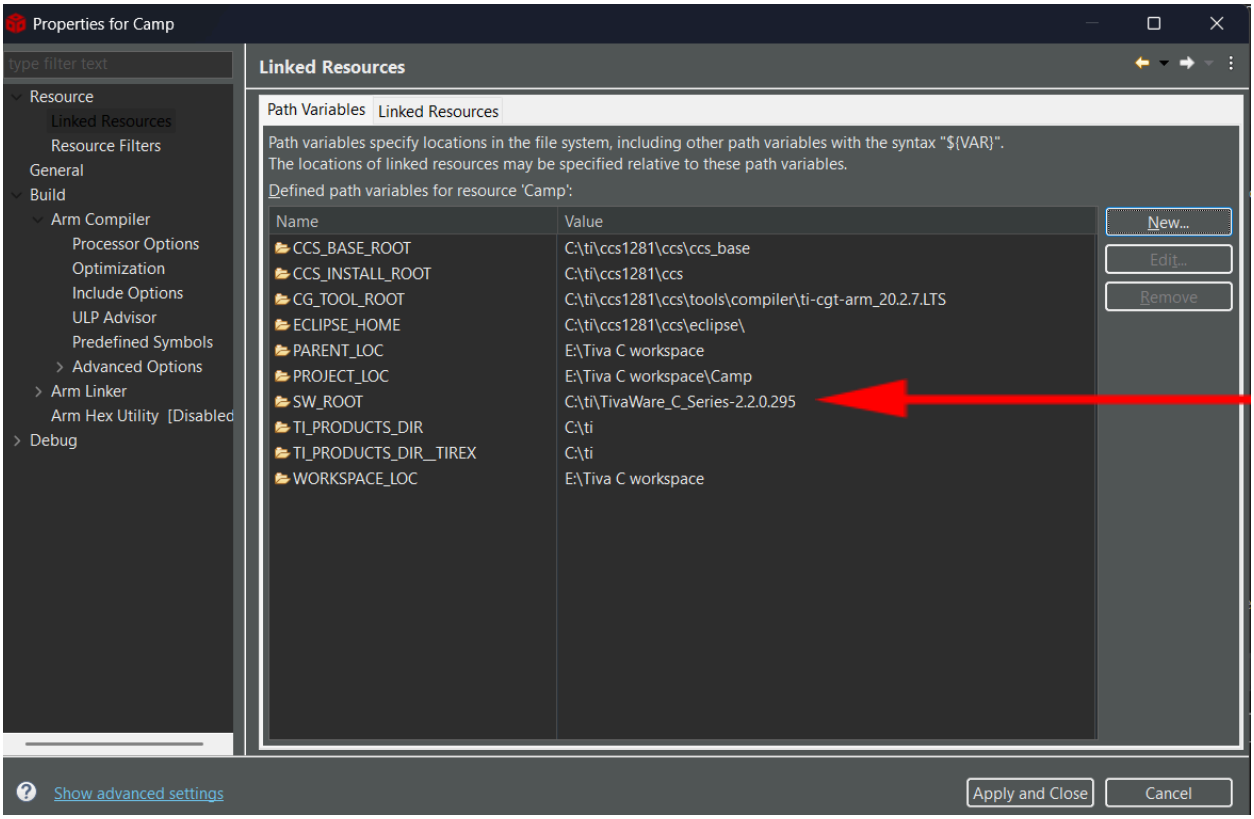
20) Name the variable SW_ROOT



21) in the location choose folder and choose this folder C:\ti\TivaWare_C_Series-2.2.0.295



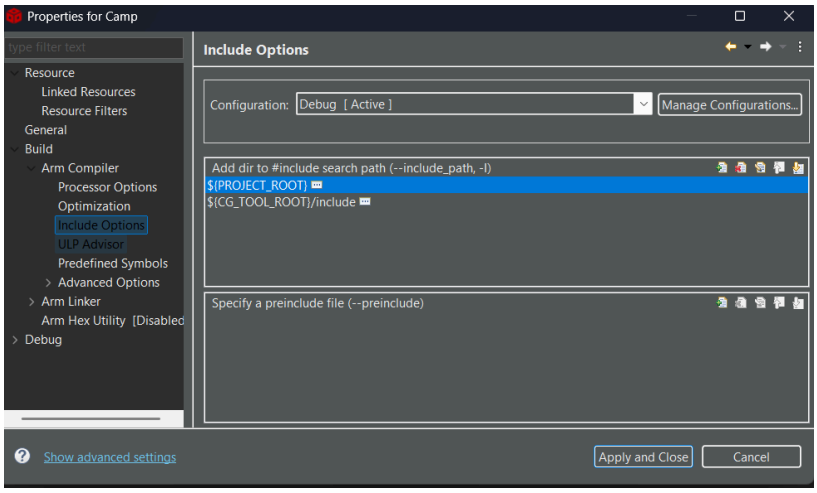
22) Then click ok and make sure it was added



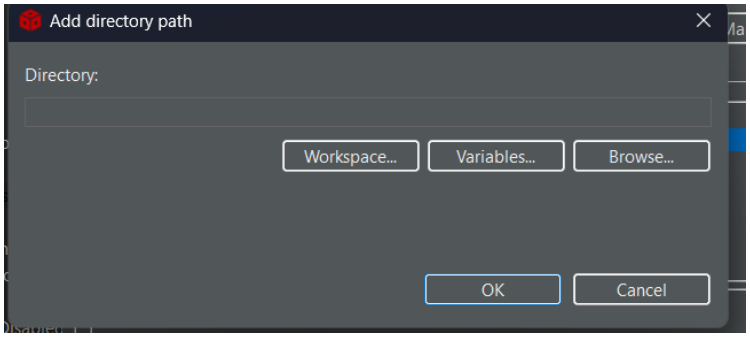
23) click apply and close

24) Open the properties again

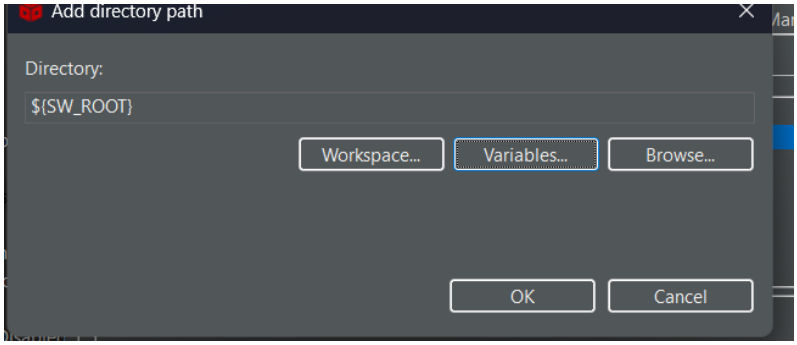
25) In build choose ARM compiler then include options



26) now we must add the variable we just created press the Add button on the right (upward) (green icon)

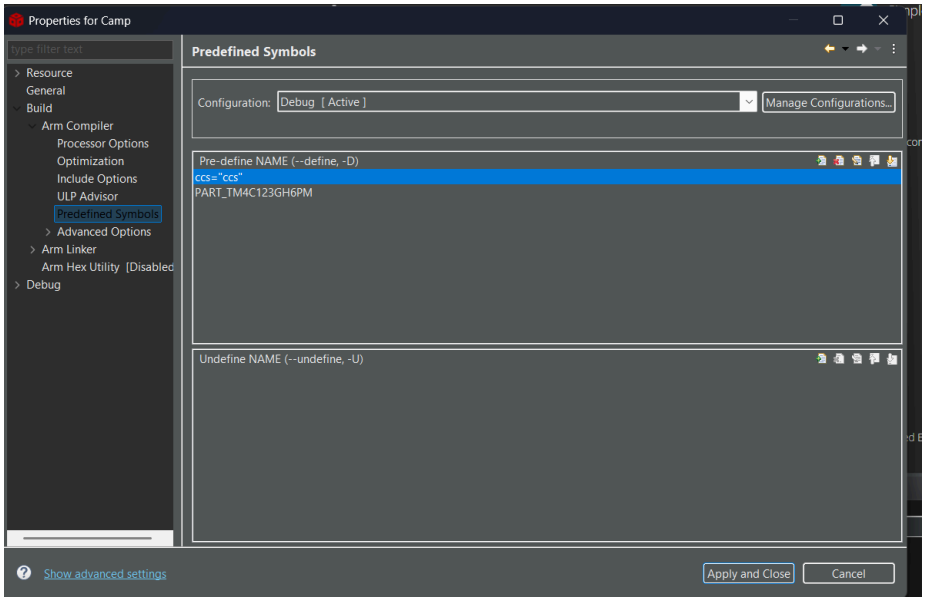


27) choose variables then SW_ROOT then click okay then apply and close



28) open properties again and choose Build then arm compiler then predefined symbols

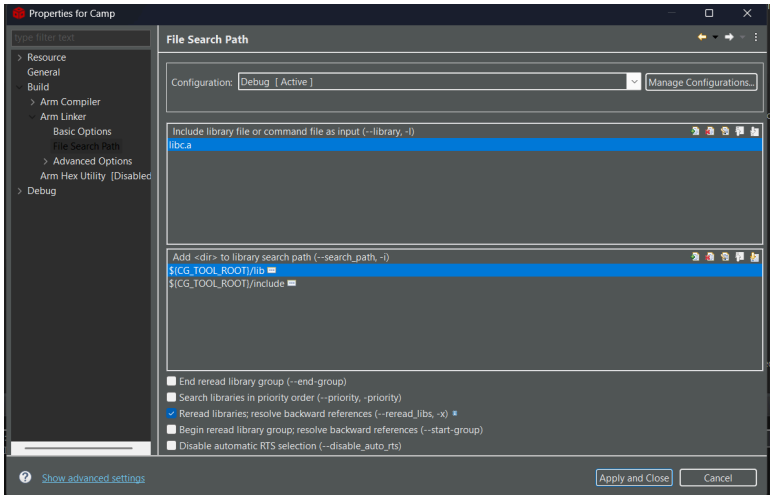
Make sure PART_TM4C123GH6PM is added if not u add it



29) Then click apply and close

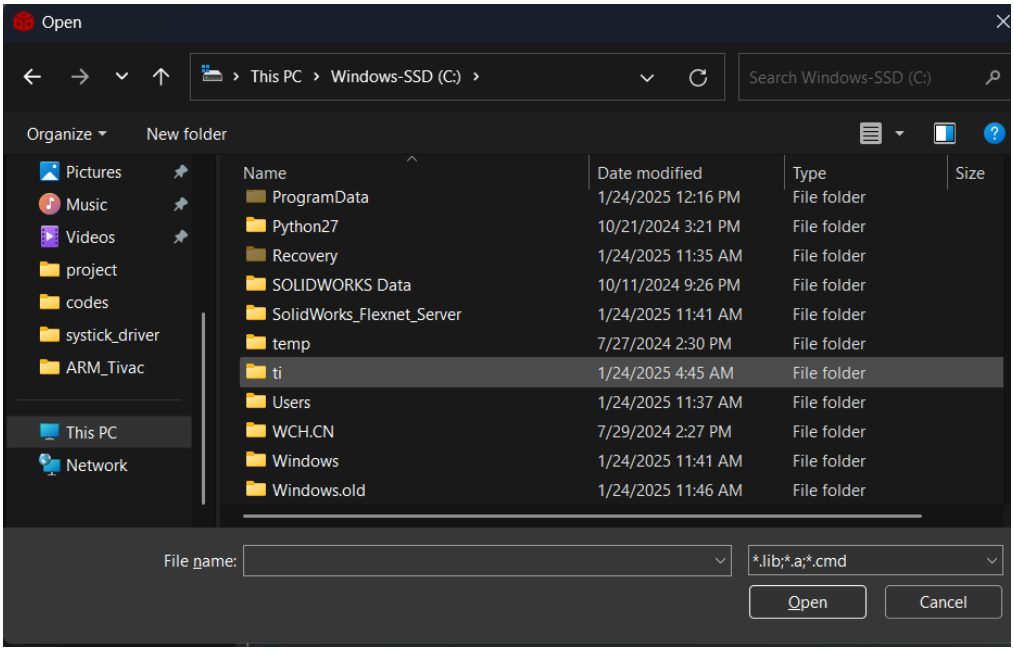
30) once last time open again the properties

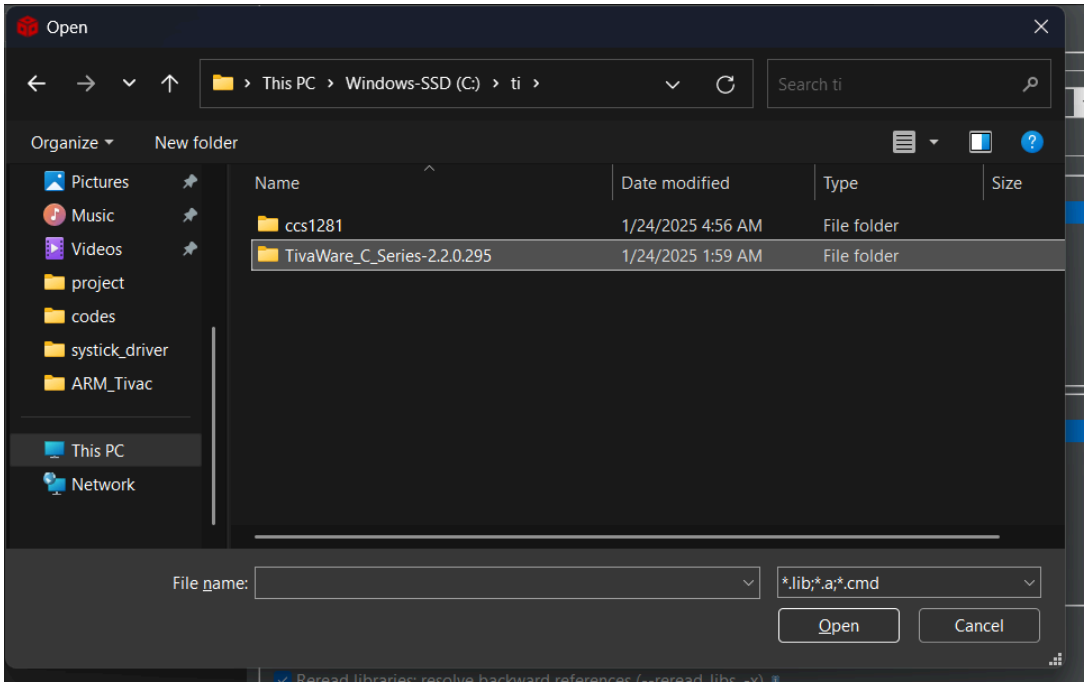
31) Choose build then arm linker then file search path

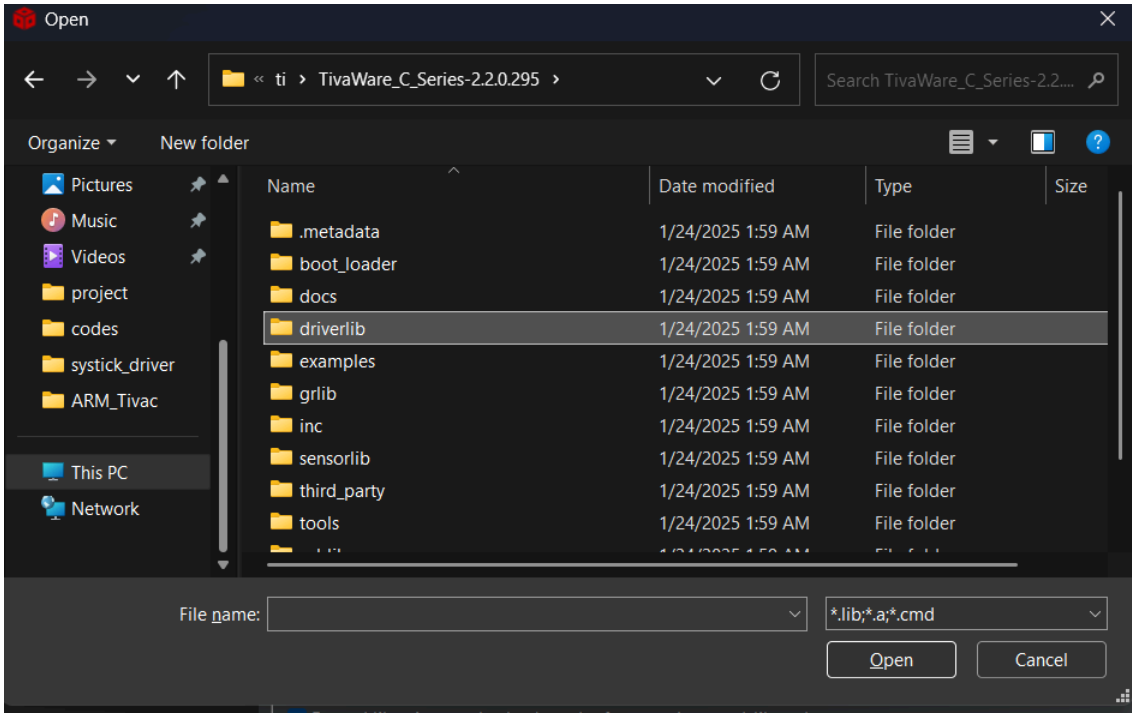


32) we must include the driver library click add the button with green icon

33) click browse and add this file
C:\ti\TivaWare_C_Series-2.2.0.295\driverlib\ccs\Debug\driverlib.lib




Open
This PC › Windows-SSD (C:) › ti ›
Search ti
Organize
New folder
Pictures
Music
Videos
project
codes
systick_driver
ARM_Tivac
This PC
Network
Name
Date modified
Type
Size
ccs1281
1/24/2025 4:56 AM
File folder
TivaWare_C_Series-2.2.0.295
1/24/2025 1:59 AM
File folder
File name:
.lib;.a;*.cmd
Open
Cancel


Open
« ti › TivaWare_C_Series-2.2.0.295 ›
Search TivaWare_C_Series-2.2....
Organize
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File folder
boot_loader
1/24/2025 1:59 AM
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docs
1/24/2025 1:59 AM
File folder
driverlib
1/24/2025 1:59 AM
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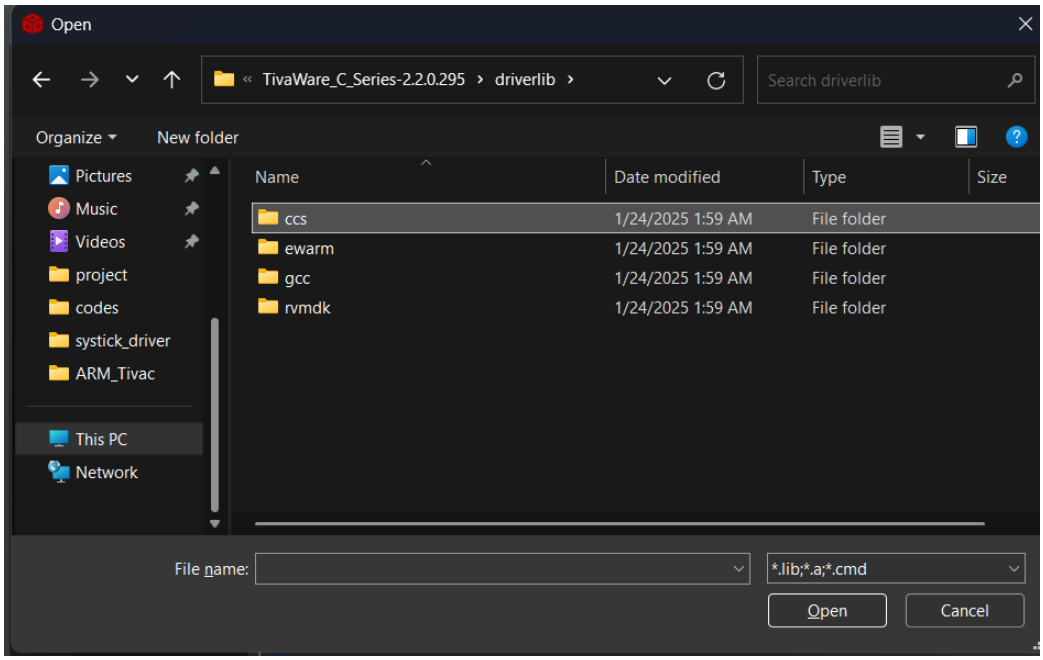
examples
1/24/2025 1:59 AM
File folder
grlib
1/24/2025 1:59 AM
File folder
inc
1/24/2025 1:59 AM
File folder
sensorlib
1/24/2025 1:59 AM
File folder
third_party
1/24/2025 1:59 AM
File folder
tools
1/24/2025 1:59 AM
File folder
File name:
.lib;.a;*.cmd
Open
Cancel


Open
TivaWare_C_Series-2.2.0.295 › driverlib ›
Search driverlib
Organize
New folder
Pictures
Music
Videos
project
codes
systick_driver
ARM_Tivac
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Network
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Date modified
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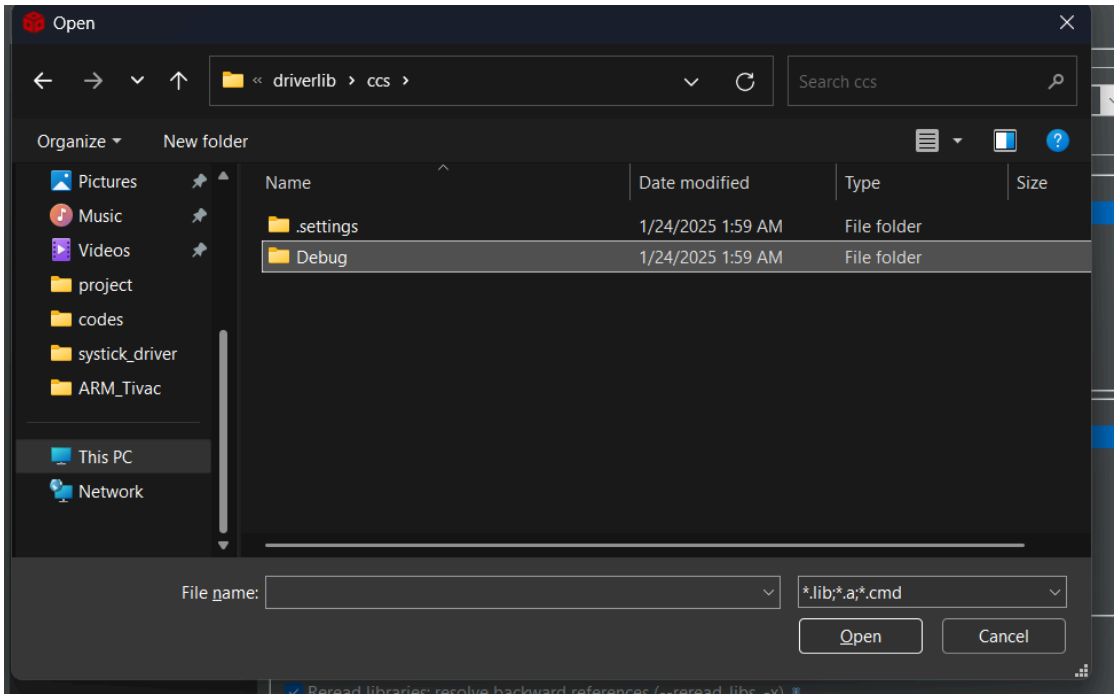
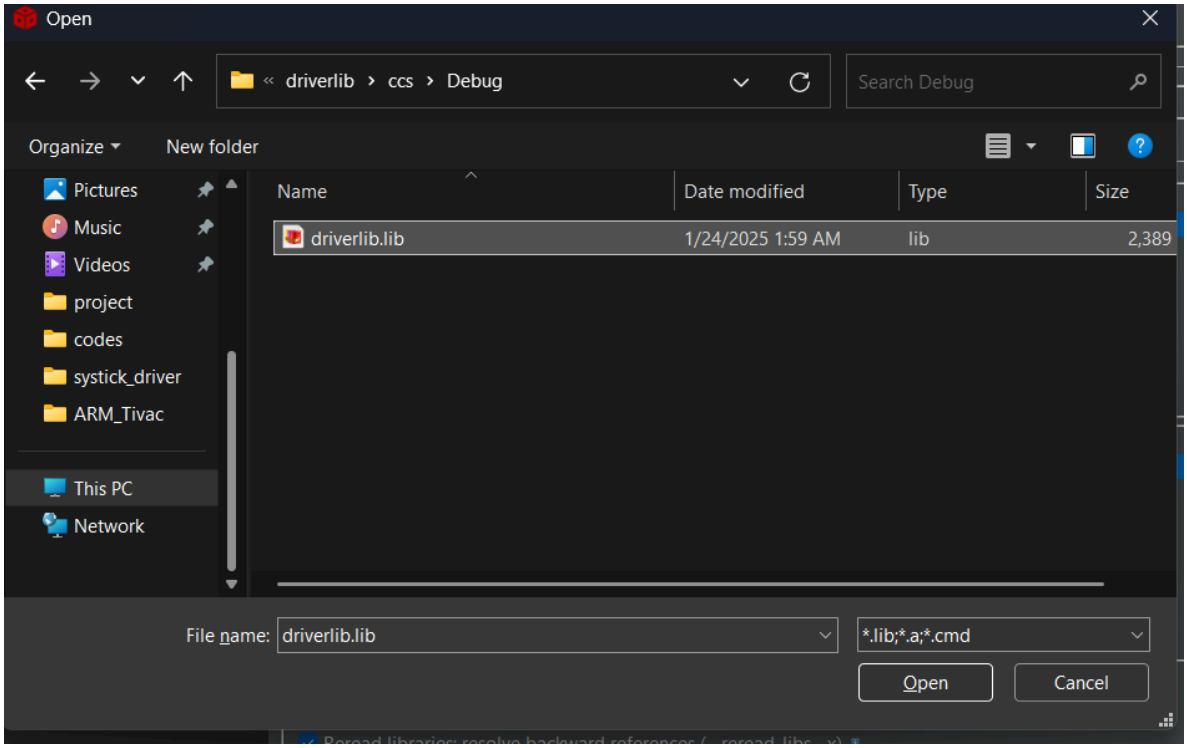
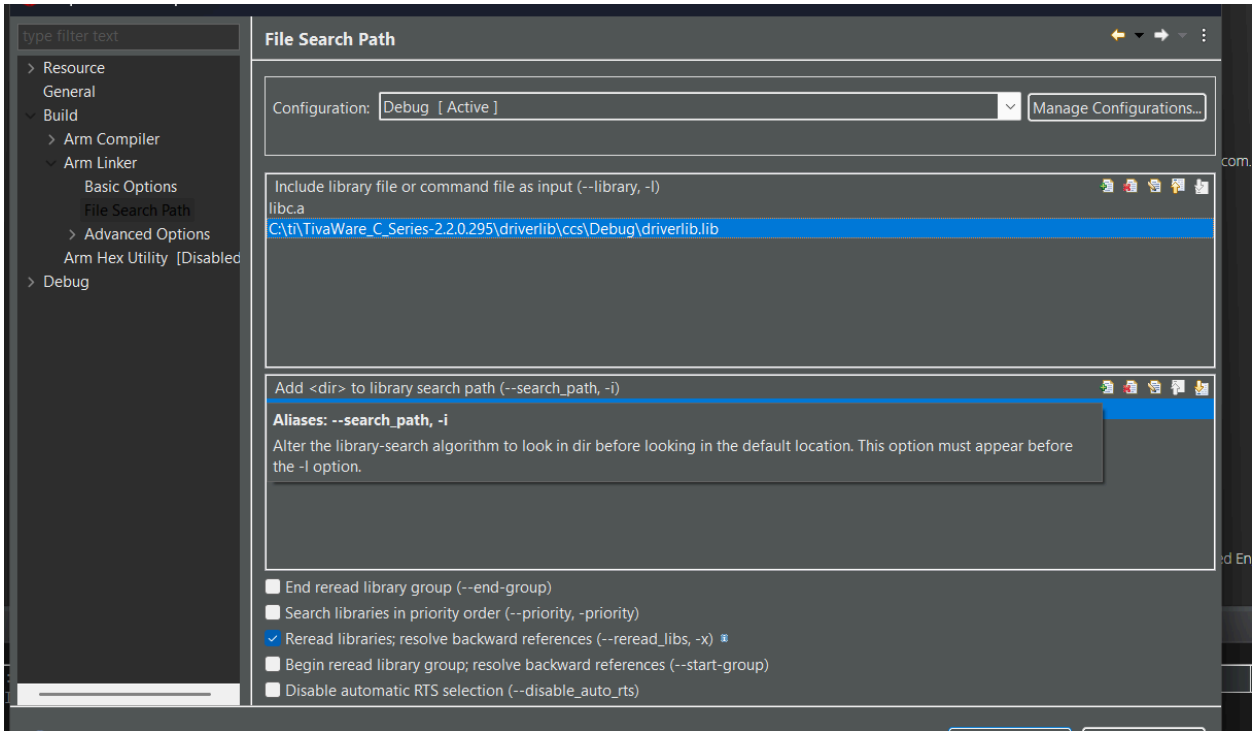
Size
ccs 1/24/2025 1:59 AM File folder
ewarm 1/24/2025 1:59 AM File folder
gcc 1/24/2025 1:59 AM File folder
rvmdk 1/24/2025 1:59 AM File folder
File name:
.lib;.a;*.cmd
Open
Cancel


Open
driverlib › ccs ›
Search ccs
Organize
New folder
Pictures
Music
Videos
project
codes
systick_driver
ARM_Tivac
This PC
Network
Name
Date modified
Type
Size
.settings 1/24/2025 1:59 AM File folder
Debug 1/24/2025 1:59 AM File folder
File name:
.lib;.a;*.cmd
Open
Cancel





34) then apply and close now you are ready to build and upload ur first project