

- create a new project in STVD, **save it and close** STVD.
- copy the files shown below to the folder of the (just created) project.
- **overwrite** the existing files

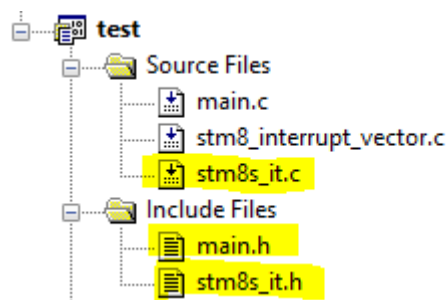
Name	Date modified	Type	Size
fixes for STVD	11-11-2020 11:05	File folder	
lib	11-11-2020 11:04	File folder	
standard_lib	11-11-2020 11:04	File folder	
main.c	11-11-2020 11:07	C File	1 KB
main.h	11-11-2020 11:11	H File	1 KB
stm8_interrupt_vector.c	9-11-2020 16:56	C File	4 KB
stm8s_it.c	11-11-2020 11:09	C File	5 KB
stm8s_it.h	10-11-2020 10:41	H File	3 KB

the standard library is used (see main.h)

stm8s_conf.h is already edited to exclude USE_FULL_ASSERT)

stm8s_it.c is already edited to include TIMER4 UPDATE IRQ handling (for systick and DELAY)

- re-start STVD and open the new project
- add stm8s_it.c to Source Files

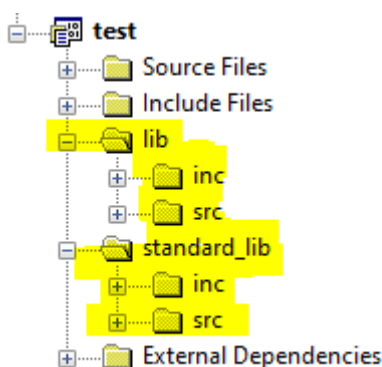


- add stm8s_it.h to Include Files
- add main.h to Include Files

- create these new folders in the project

lib
lib/inc
lib/src

standard_lib
standard_lib/inc
standard_lib/src



- add all files in the corresponding disk-folders to the new folders in the project (or just the files you really need)

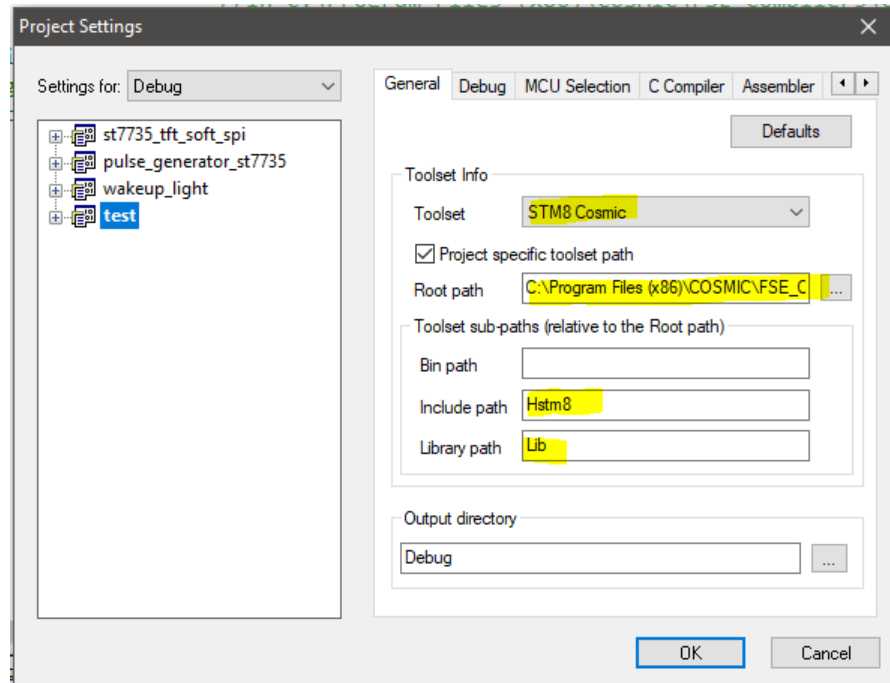
it should look somewhat like this:



GO TO: Project -> Settings -> General

- Toolset should be STM8 Cosmic
- choose "Project specific toolset path"
- change Root path into: C:\Program Files (x86)\COSMIC\FSE_Compilers\CXSTM8
- include path should be Hstm8, library path should be Lib

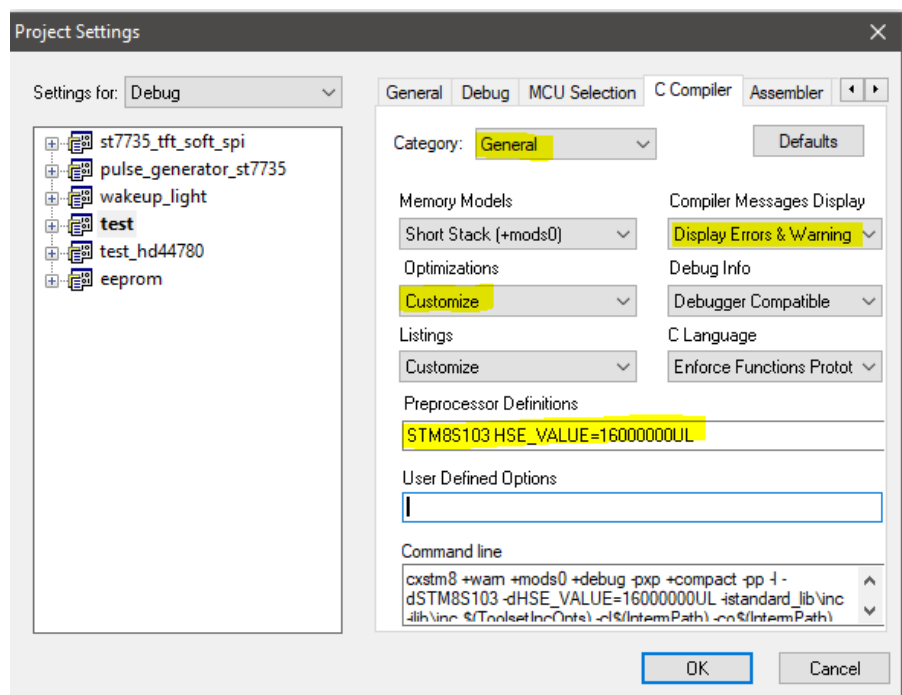
- do this for both Debug and Release Settings



GO TO: Project -> Settings -> C-Compiler -> Category General

- change the Optimizations to Customize
- change Compiler Message Display from "Display errors only" to "Display errors & Warnings"
- add STM8S103 HSE_VALUE=16000000UL to the Preprocessor Definitions
- (or the STM8S103 or other microcontroller type and the actual HSE value you use)

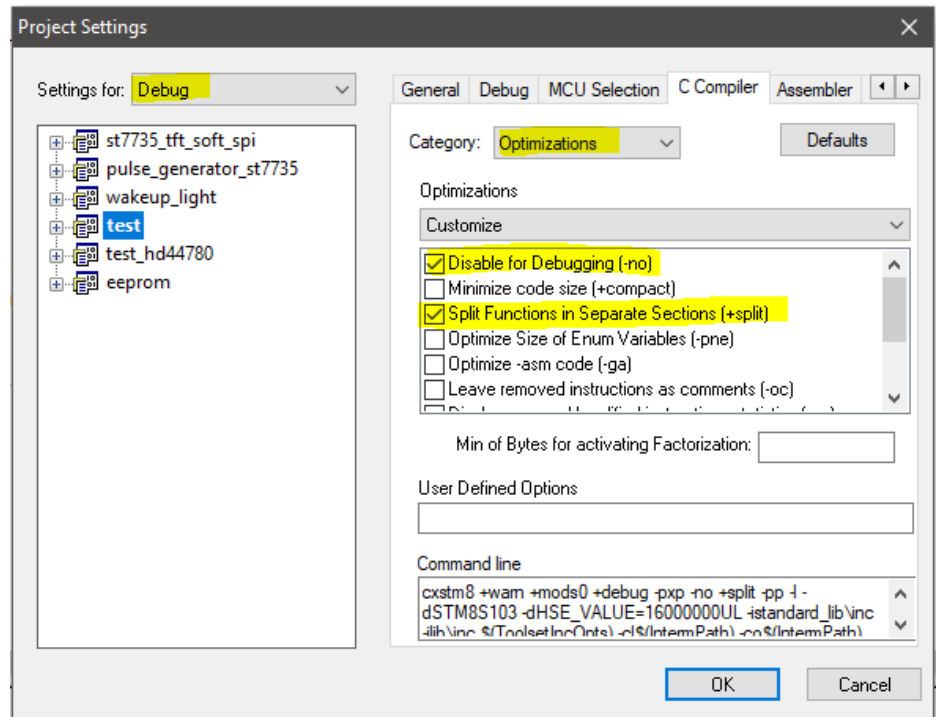
- do this for both Debug and Release Settings



GO TO: Project -> Settings -> C-Compiler -> Category Optimizations

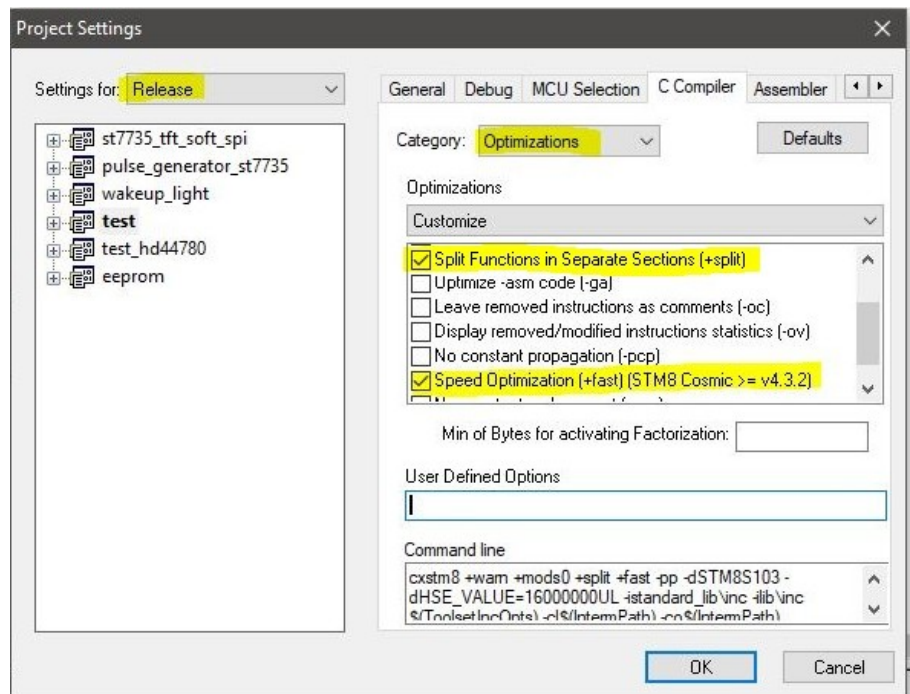
For **DEBUG** select:

- Disable for Debugging (-no)
- Split Functions in Separate Sections (+split)



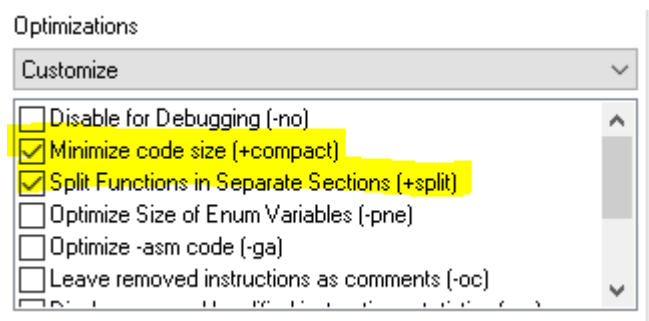
For **RELEASE** select :

- Split Functions in Separate Sections (+split)
- Speed Optimization (+fast) (STM8 Cosmic >= 4.3.2)



- or choose Minimize code size (+compact)

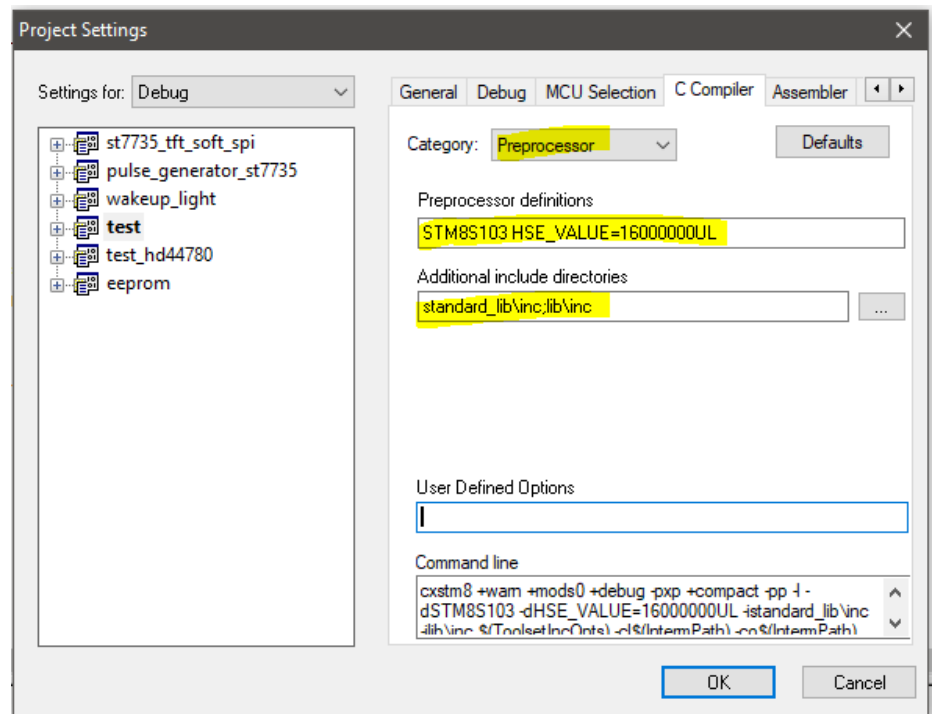
(but not both +fast and +compact)



GO TO: Project -> Settings -> C-Compiler -> Category Preprocessor

- additional include libraries should be: `standard_lib\inc ; lib\inc ;`. ← add the ;.

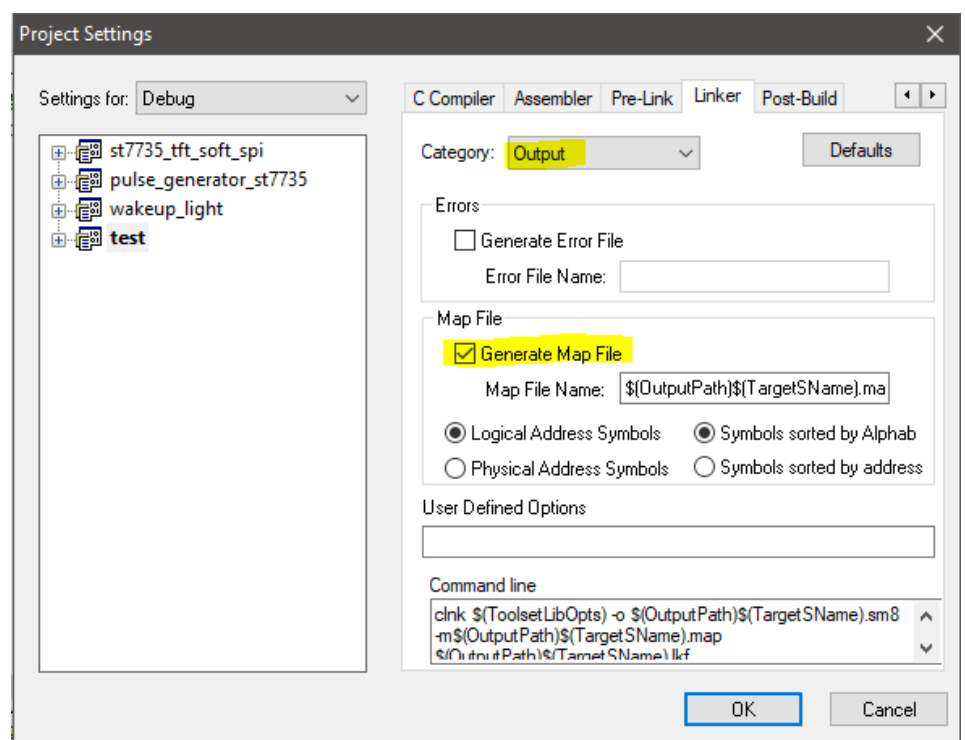
- check this for both Debug and Release Settings



GO TO: Project -> Settings -> Linker

- in the Category Output, tick "Generate Map file"

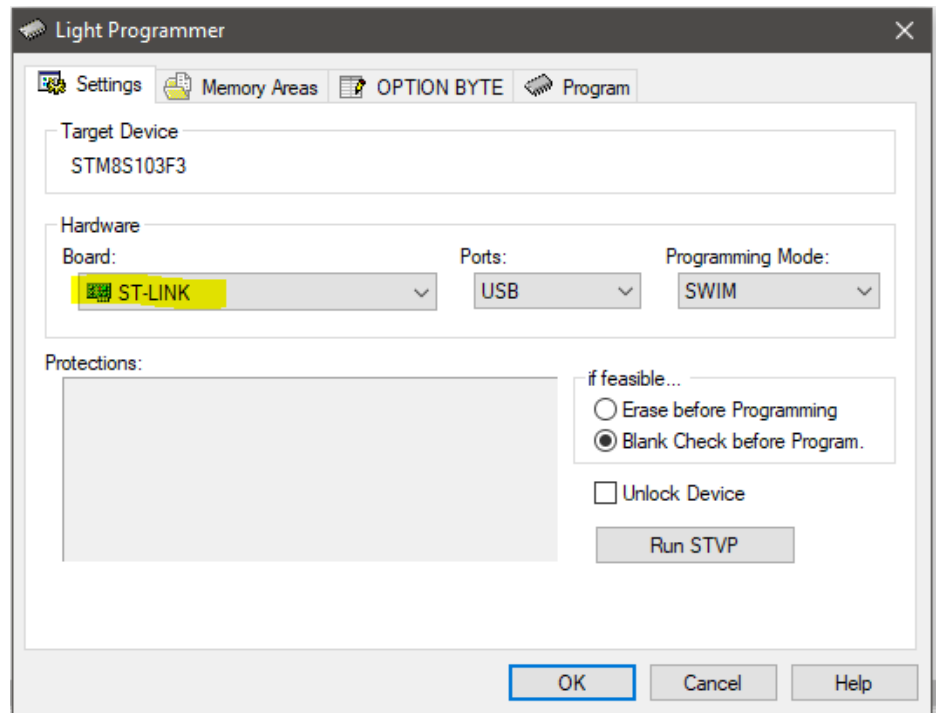
- do this for both Debug and Release Settings



click OK and Try REBUILD_ALL to check for warnings / errors

GO TO: Tools -> Programmer -> Settings:

– change Hardware to "ST-LINK"



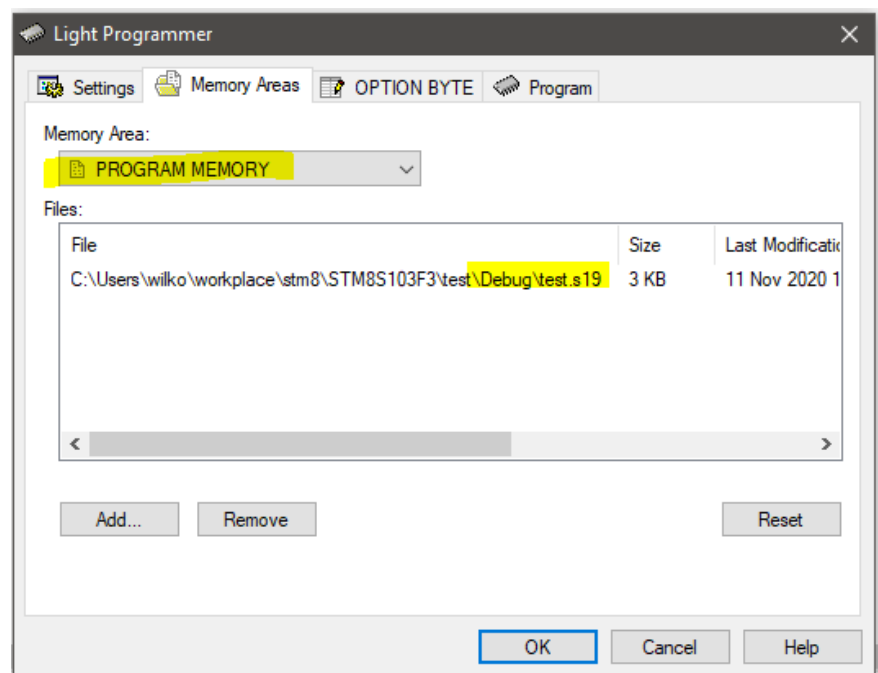
GO TO: Tools -> Programmer -> Memory Areas

– DATA MEMORY: should be empty

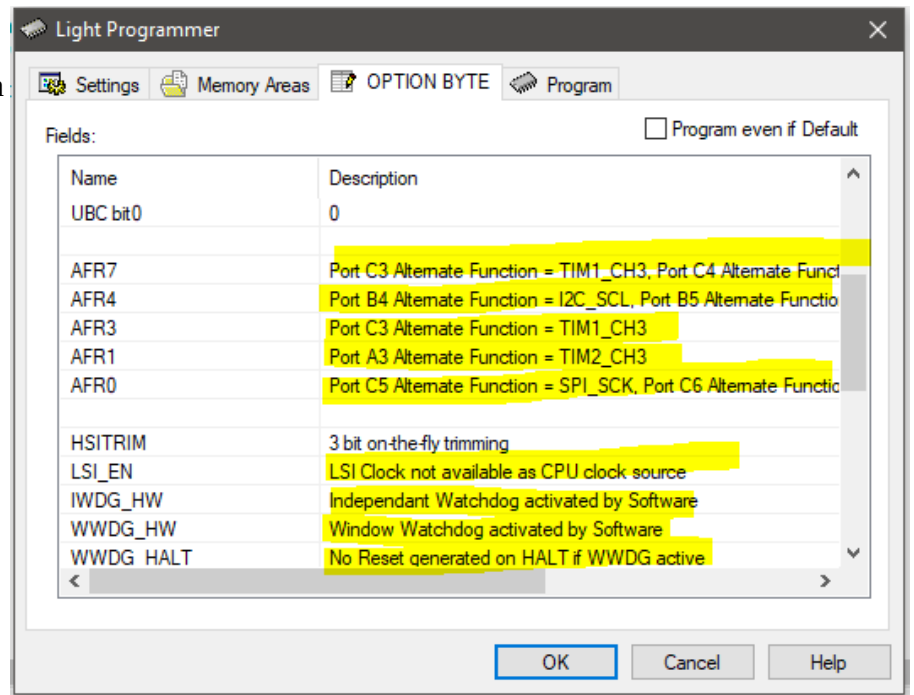
GO TO: Tools -> Programmer -> Memory Areas

– PROGRAM MEMORY -> Add: projectname\Debug\xxx.s19 file or

– PROGRAM MEMORY -> Add: projectname\Release\xxx.s19 file



The option bytes are interesting to check but usually are correct. I think it is best to change the option bytes with a separate program: ST Visual Programmer

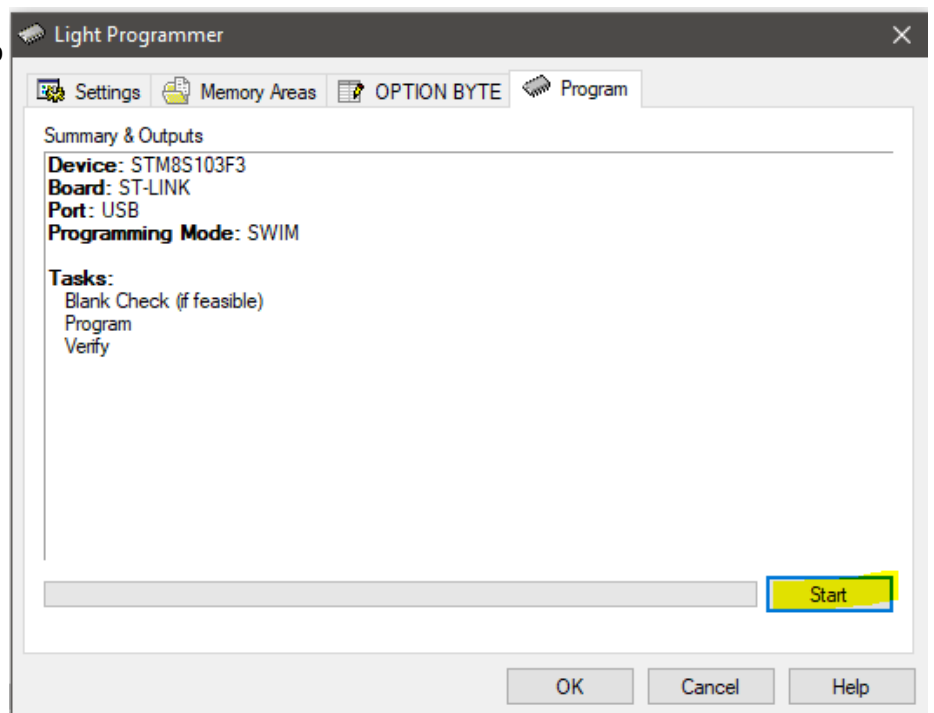


NOW CLICK OK

(this is important, do this before programming the microcontroller or you will keep setting all the options mentioned above)

Tools -> Programmer -> Program

click "Start" to upload the code to the MCU



When data needs to go into DATA MEMORY uploading via the Light Programmer does **NOT** work.

In that case open a DEBUG session,

that will take care of programming both the PROGRAM MEMORY and DATA MEMORY

