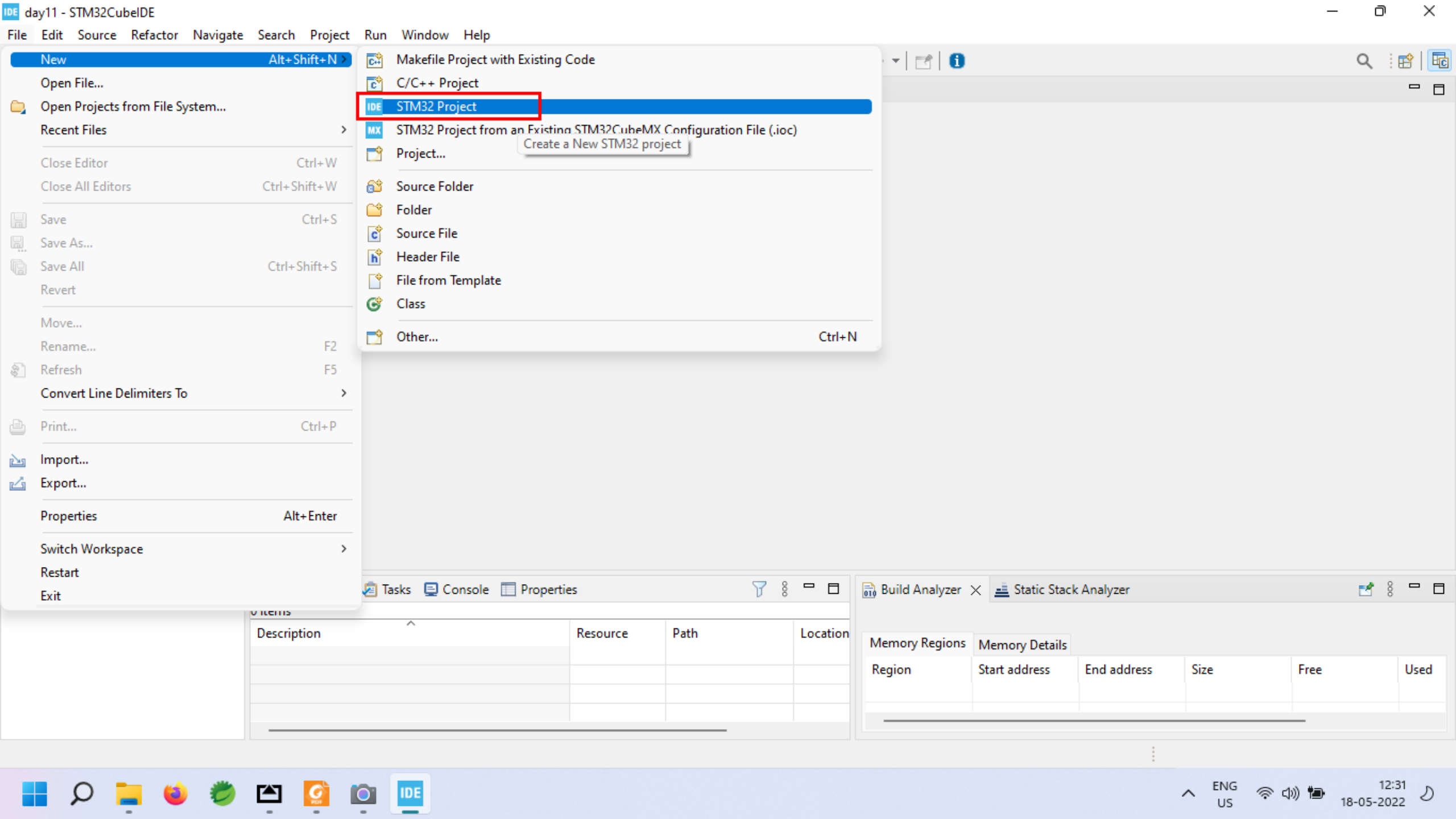
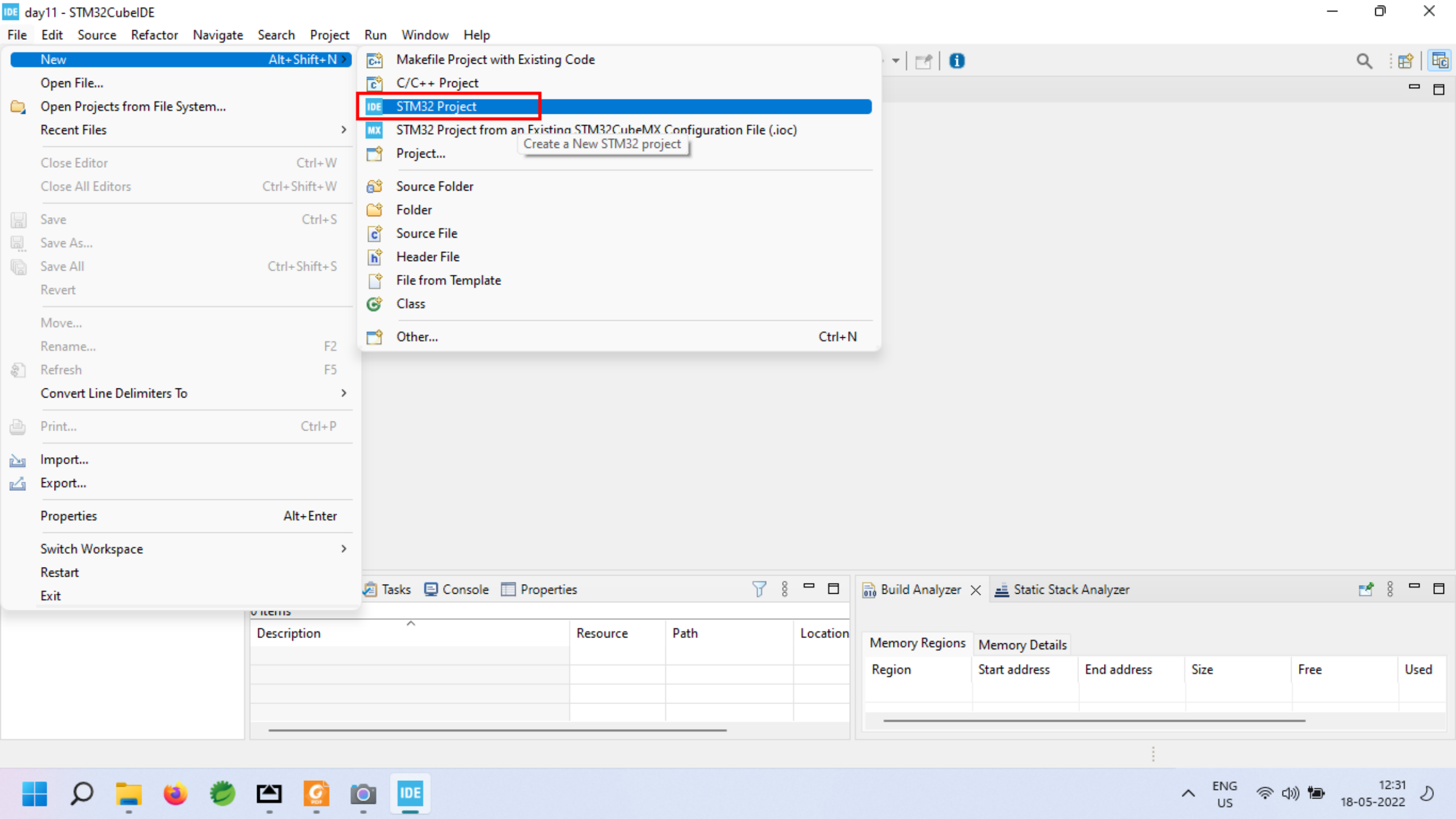




STM32CubeIDE *Hello World*

PG-DESD @ SunBeam Infotech



Target Selection

Select STM32 target or STM32Cube example

MCU/MPU Selector Board Selector Example Selector Cross Selector

Board Filters



Commercial Part Number

PRODUCT INFO >

MEMORY >

FEATURES >

Features

Large Picture

Docs & Resources

Datasheet

Buy

STM32F4 Series



STM32F407G-DISC1

Discovery kit with STM32F407VG MCU * New order code STM32F407G-DISC1 (replaces STM32F4DISCOVERY)

ACTIVE

Product is in mass production

Part Number : STM32F4DISCOVERY
Commercial Part Number : STM32F407G-DISC1

Unit Price (US\$) : 19.9

Mounted Device : [STM32F407VGT6](#)



The STM32F4DISCOVERY Discovery kit leverages the capabilities of the STM32F407 high-performance microcontrollers, to allow users to develop audio applications easily. It includes an ST-LINK/V2-A embedded debug tool, one ST-MEMS digital accelerometer, one digital microphone, one audio DAC with integrated class D speaker driver, LEDs, push-buttons, and a USB OTG Micro-AB connector.

Boards List: 1 item

Export

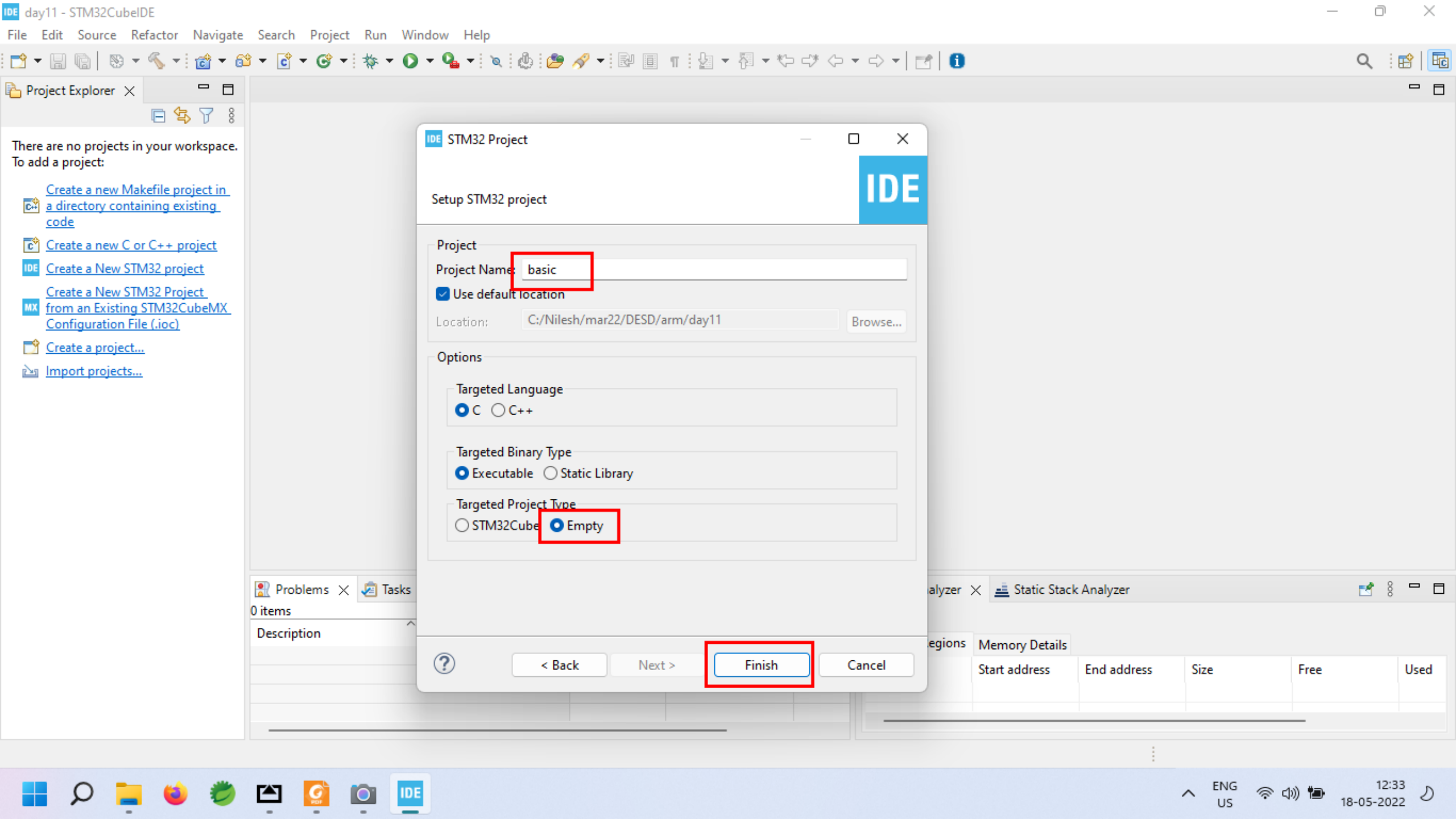
*	Overview	Commercial Part No	Type	Marketing Status	Unit Price (US\$)	Mounted Device
☆		STM32F407G-DISC1	Discovery Kit	Active	19.9	STM32F407VGT6

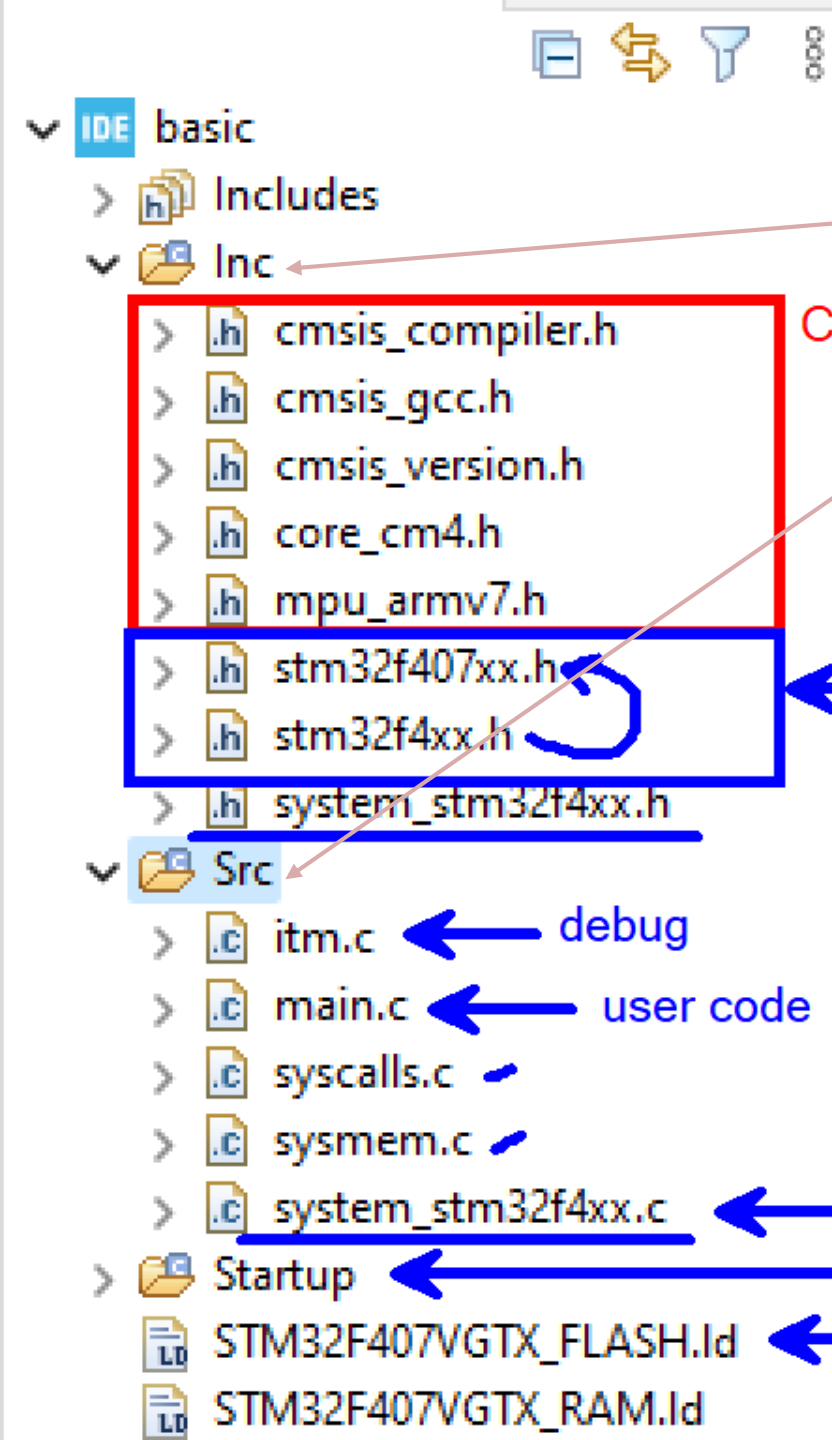
< Back

Next >

Finish

Cancel





Copy files in "Inc" and "Src" folders from the shared "basic" project.

CM4 (CMSIS)

Peri addresses and MMIO structs

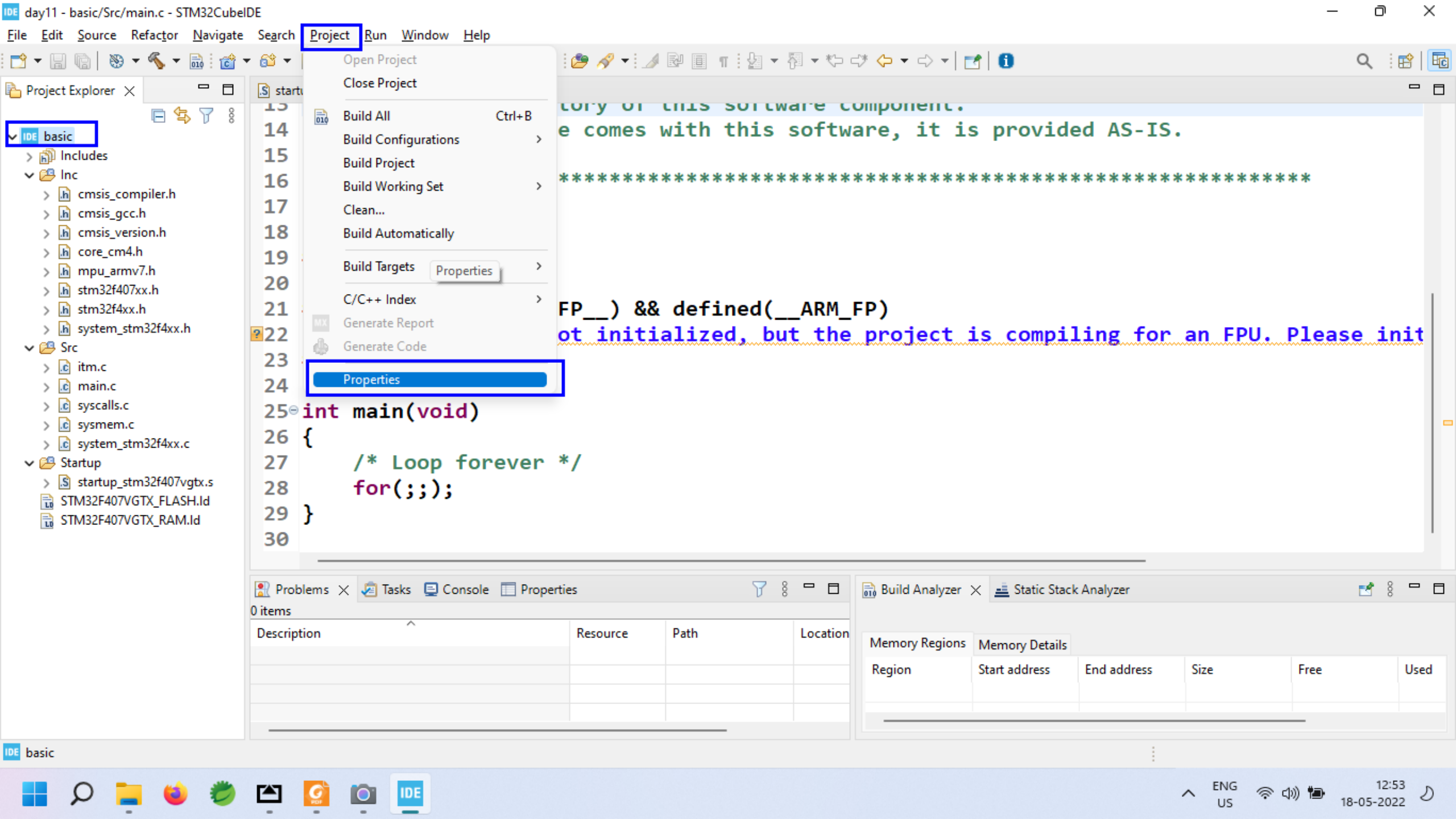
debug

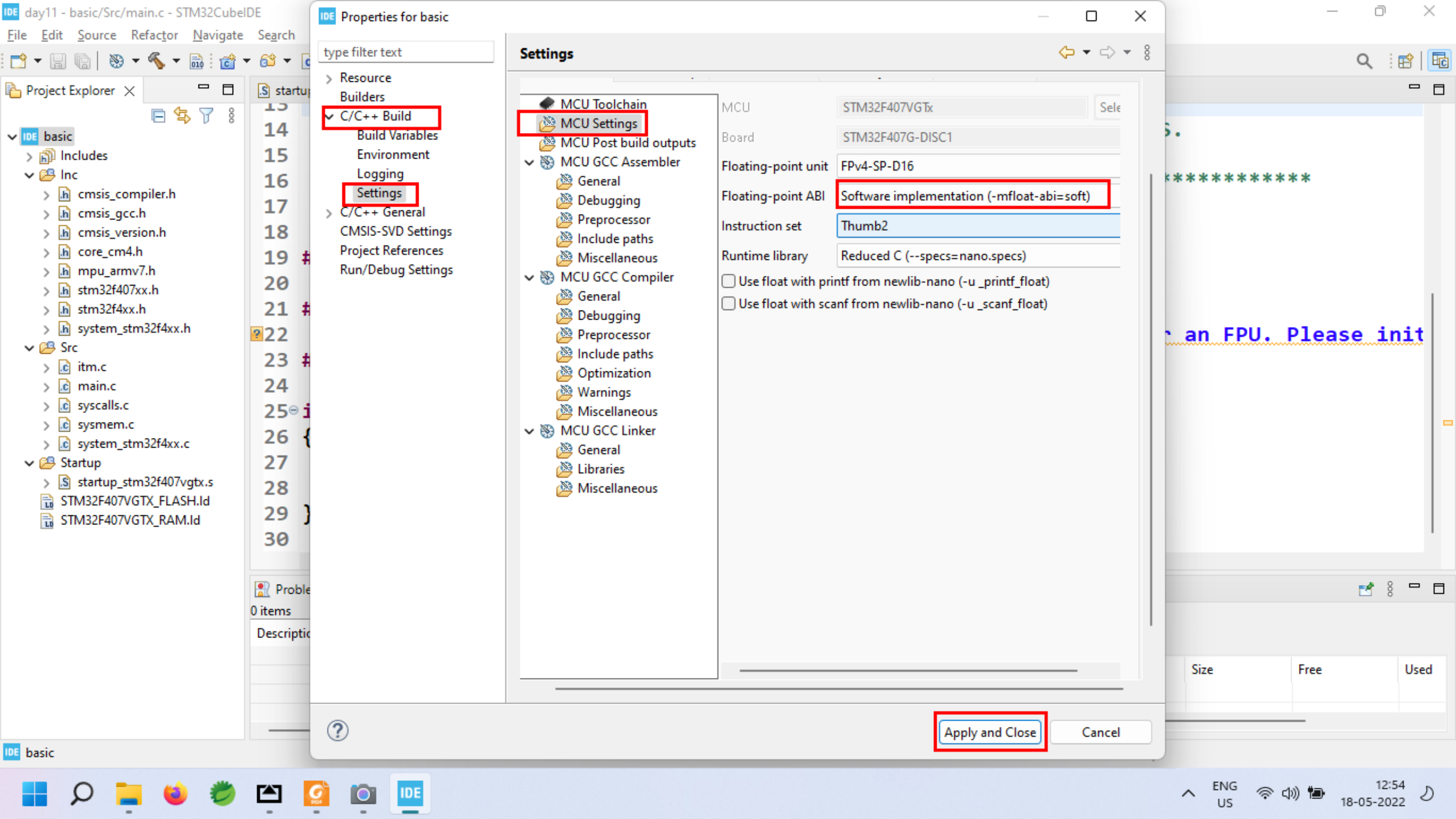
user code

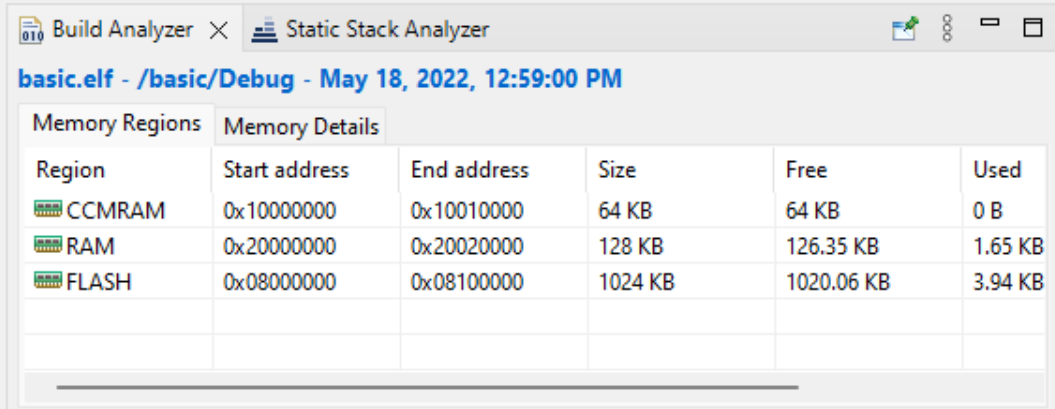
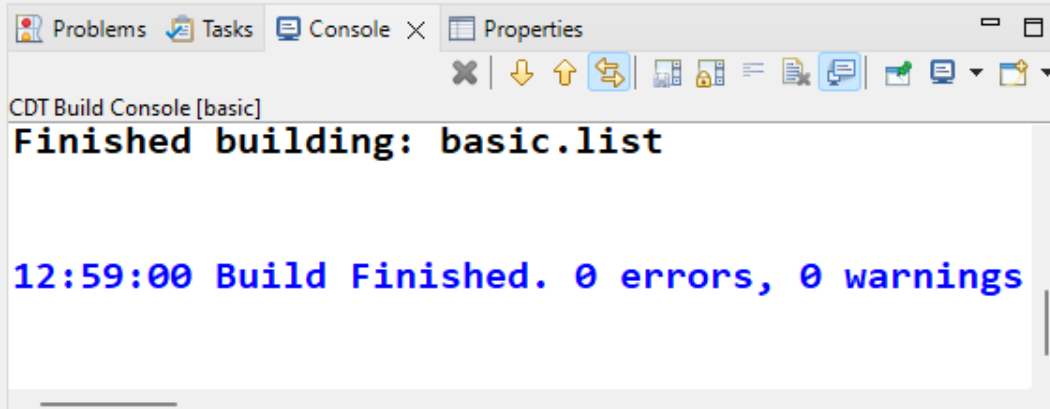
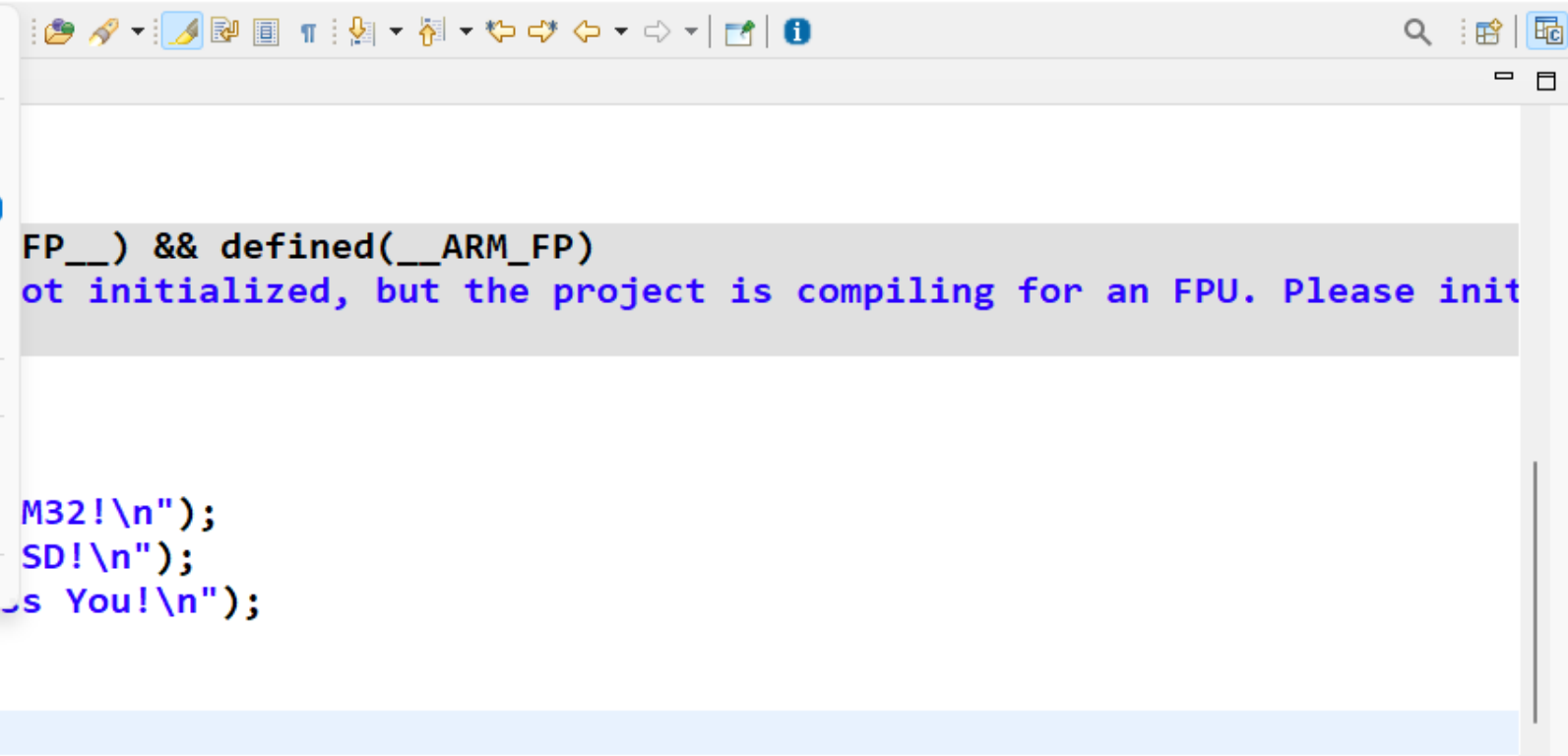
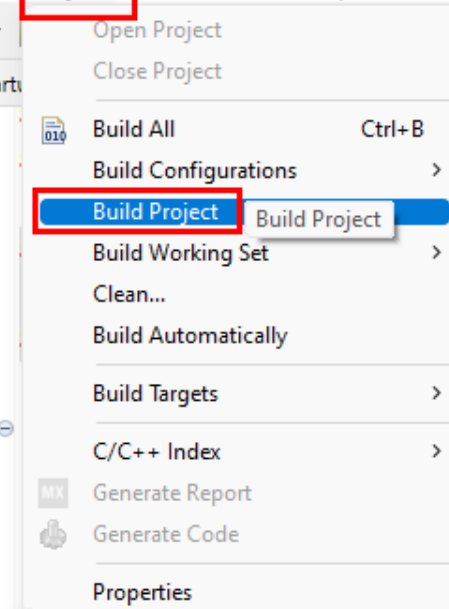
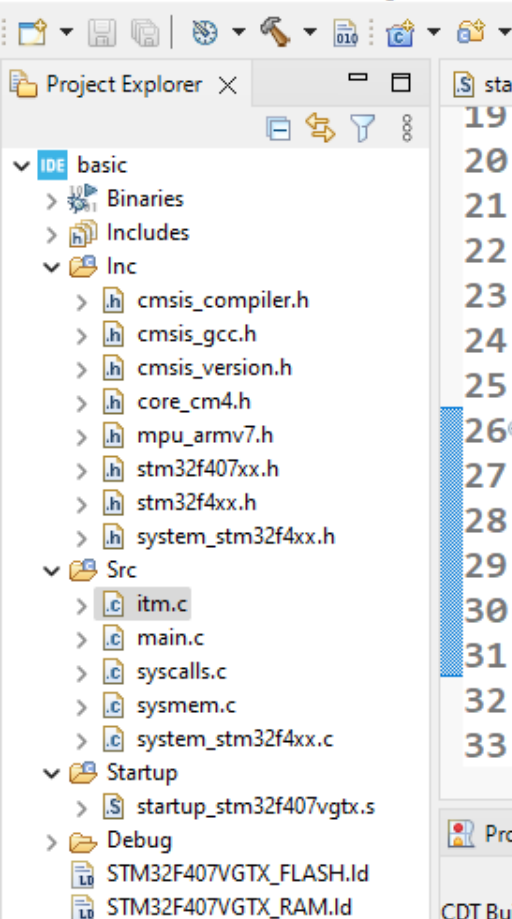
System Init (DS, BSS, Clock config)

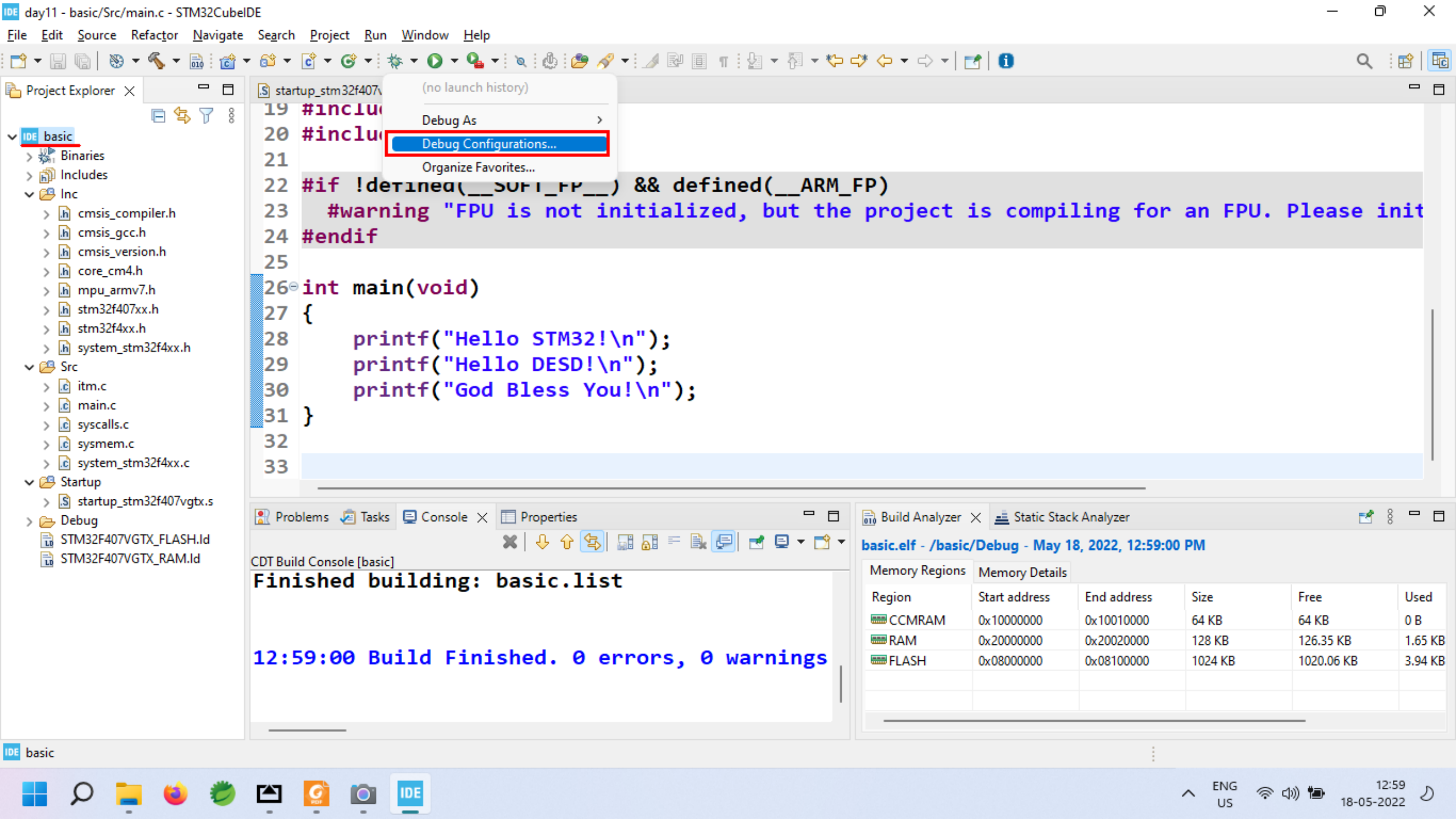
vector table, reset handler.

Linker script









- > Binaries
- > Includes
- > Inc
 - > cmsis_compiler.h
 - > cmsis_gcc.h
 - > cmsis_version.h
 - > core_cm4.h
 - > mpu_armv7.h
 - > stm32f407xx.h
 - > stm32f4xx.h
 - > system_stm32f4xx.h
- > Src
 - > itm.c
 - > main.c
 - > syscalls.c
 - > systemem.c
 - > system_stm32f4xx.c
- > Startup
 - > startup_stm32f407vgtx.s
- > Debug
 - STM32F407VGTX_FLASH.Id
 - STM32F407VGTX_RAM.Id

startup_stm32f407

(no launch history)

Debug As

Debug Configurations...

Organize Favorites...

```
19 #include
20 #include
21
22 #if !defined(__SOFT_FP__) && defined(__ARM_FP)
23     #warning "FPU is not initialized, but the project is compiling for an FPU. Please init
24 #endif
25
26 int main(void)
27 {
28     printf("Hello STM32!\n");
29     printf("Hello DESD!\n");
30     printf("God Bless You!\n");
31 }
32
33
```

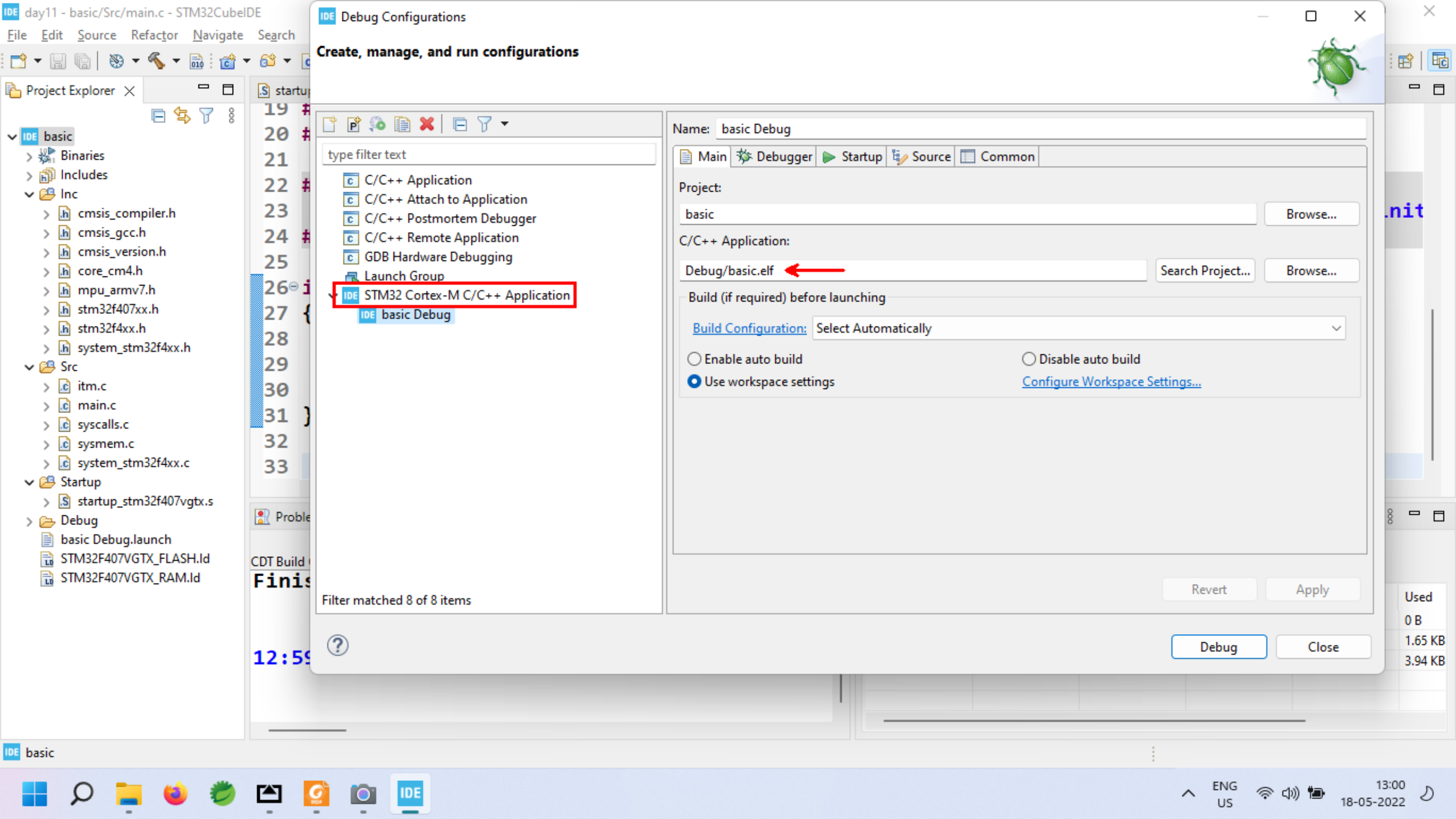
CDT Build Console [basic]

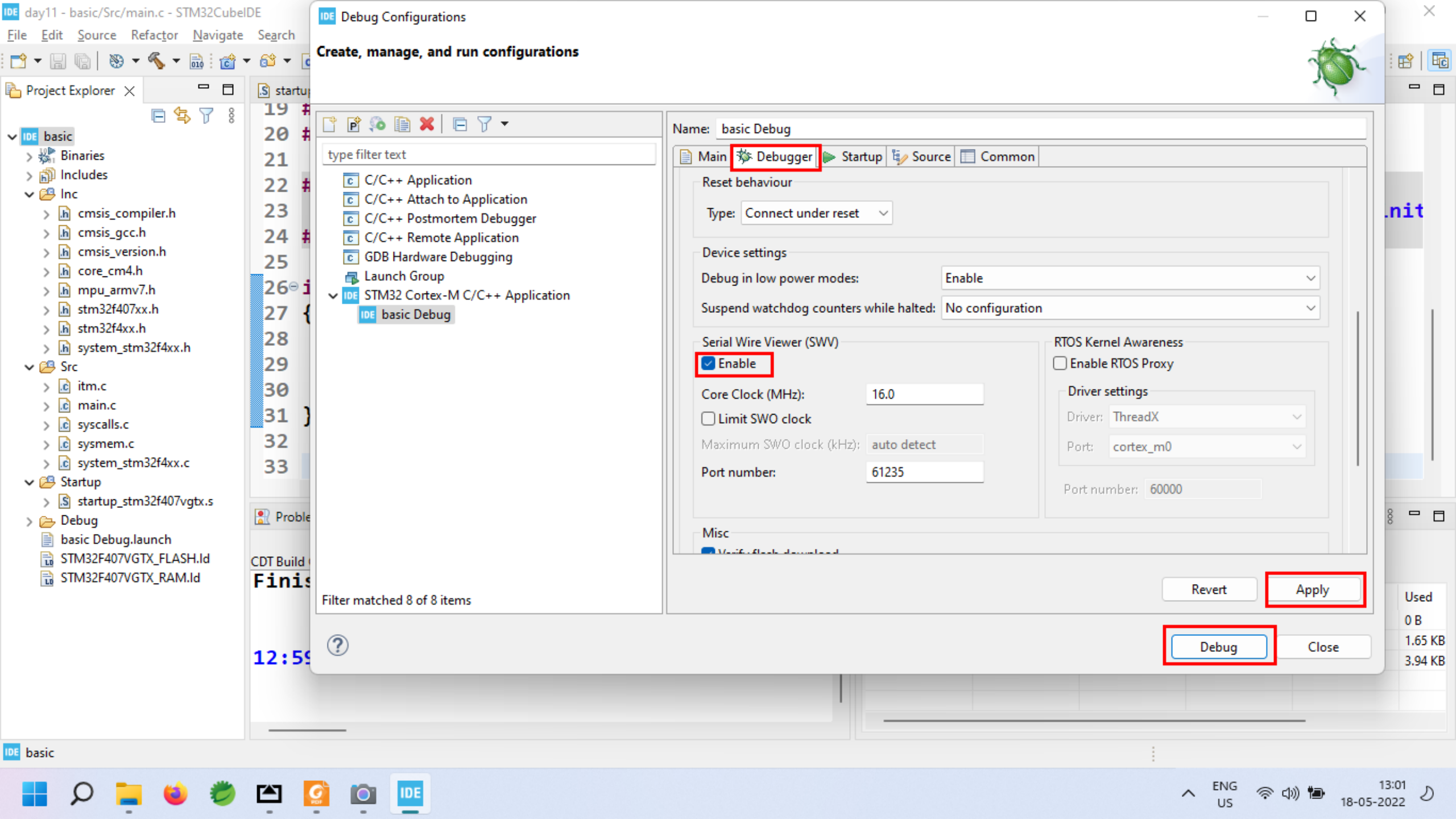
Finished building: basic.list

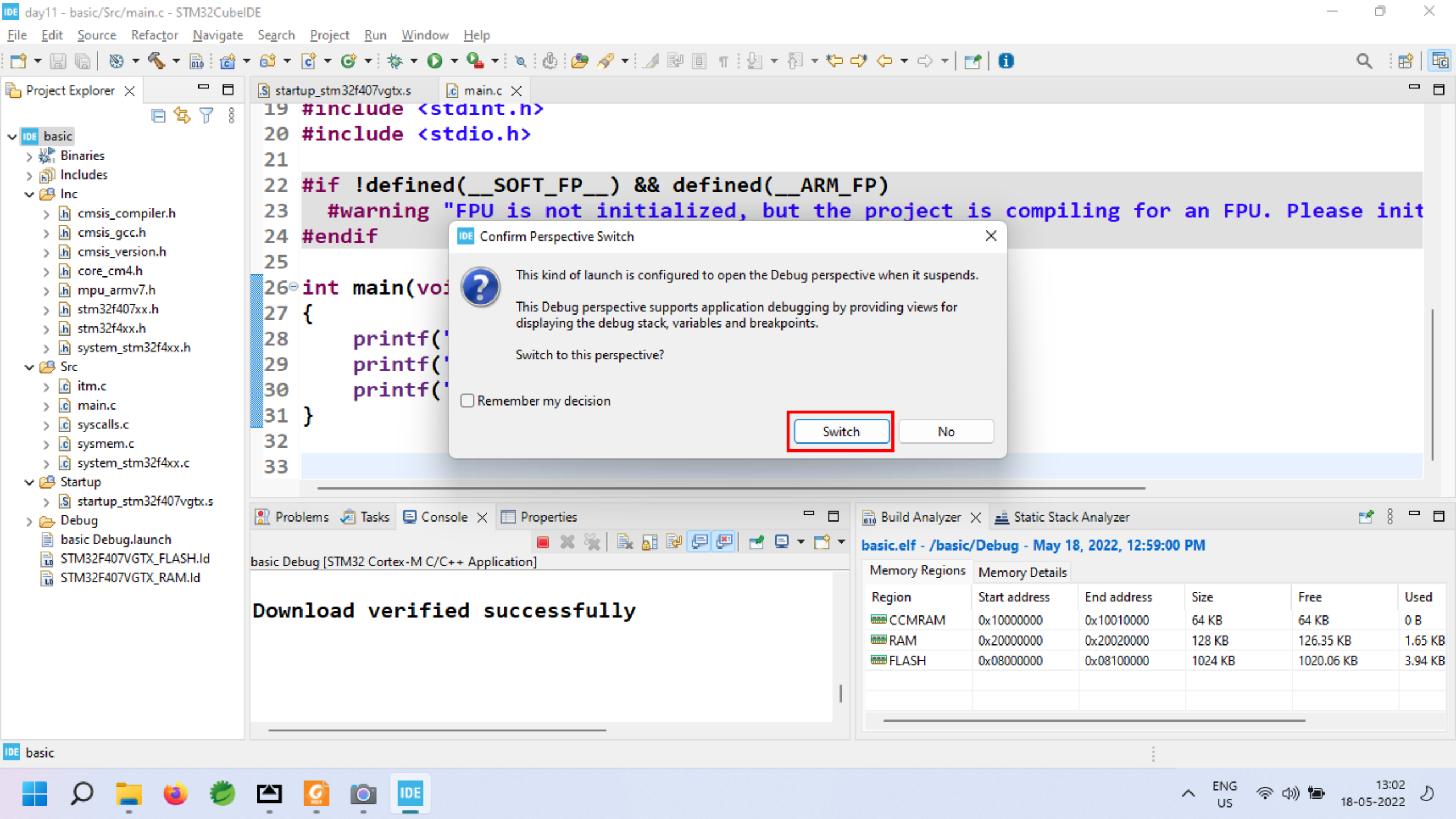
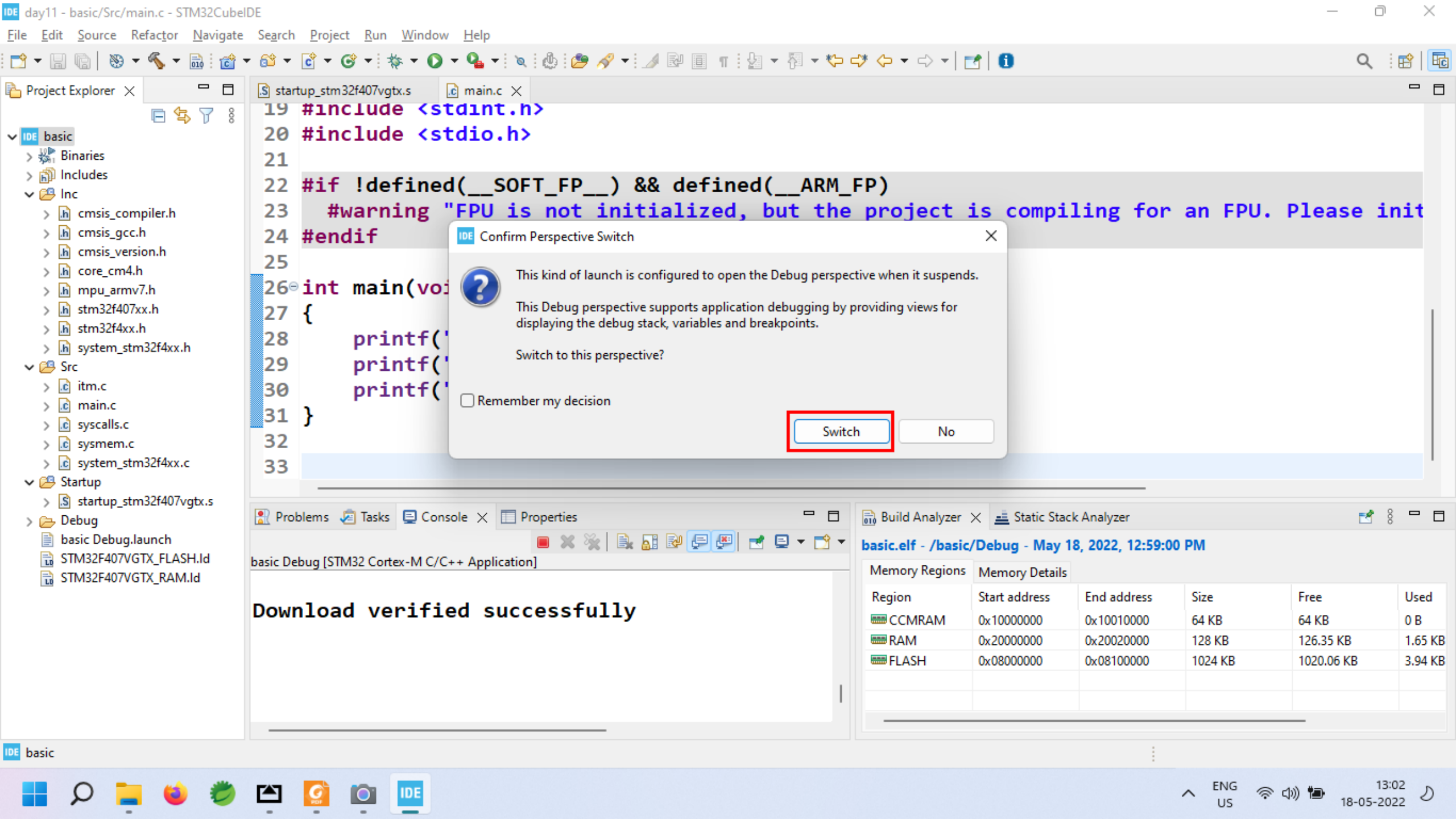
12:59:00 Build Finished. 0 errors, 0 warnings

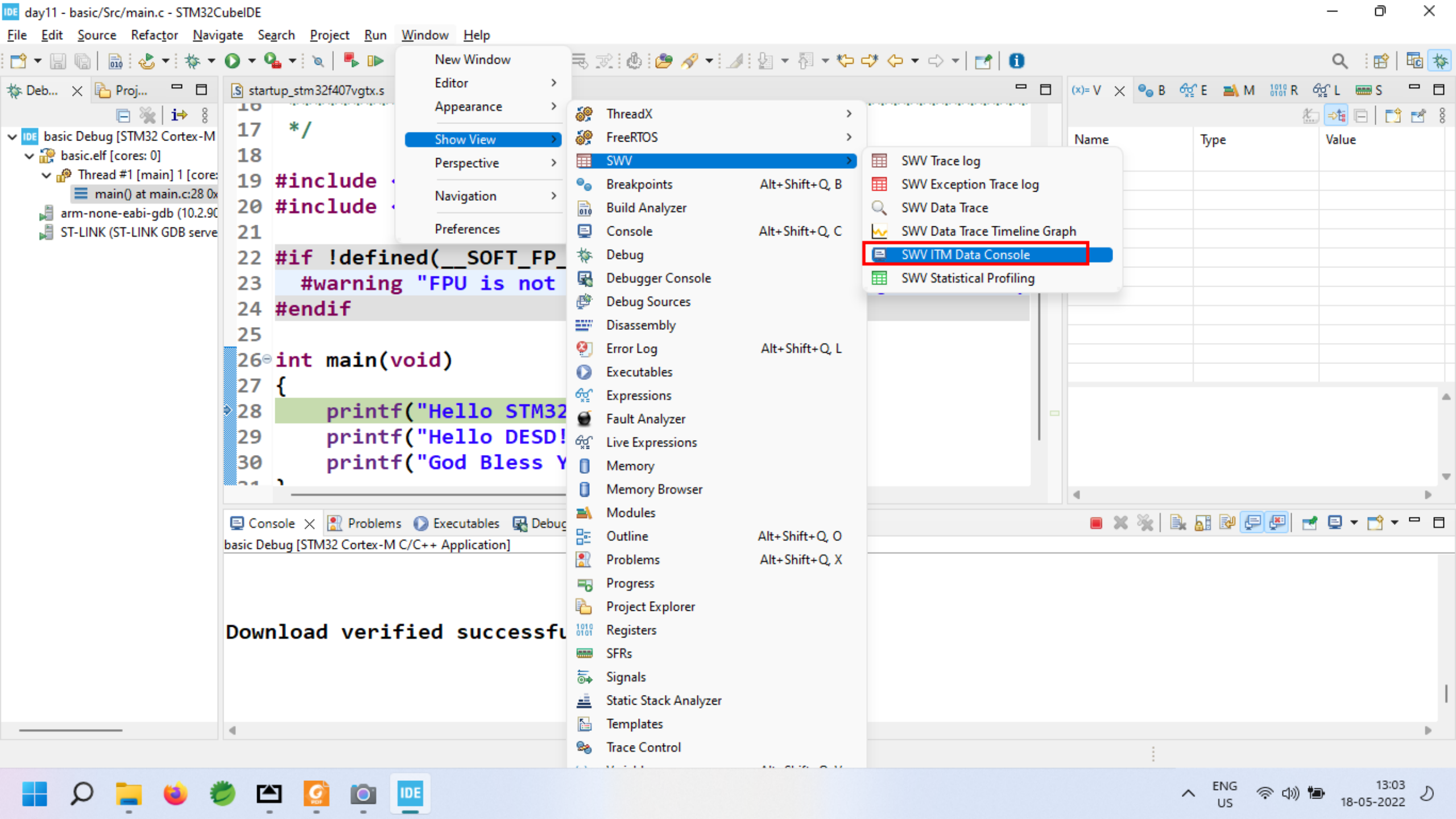
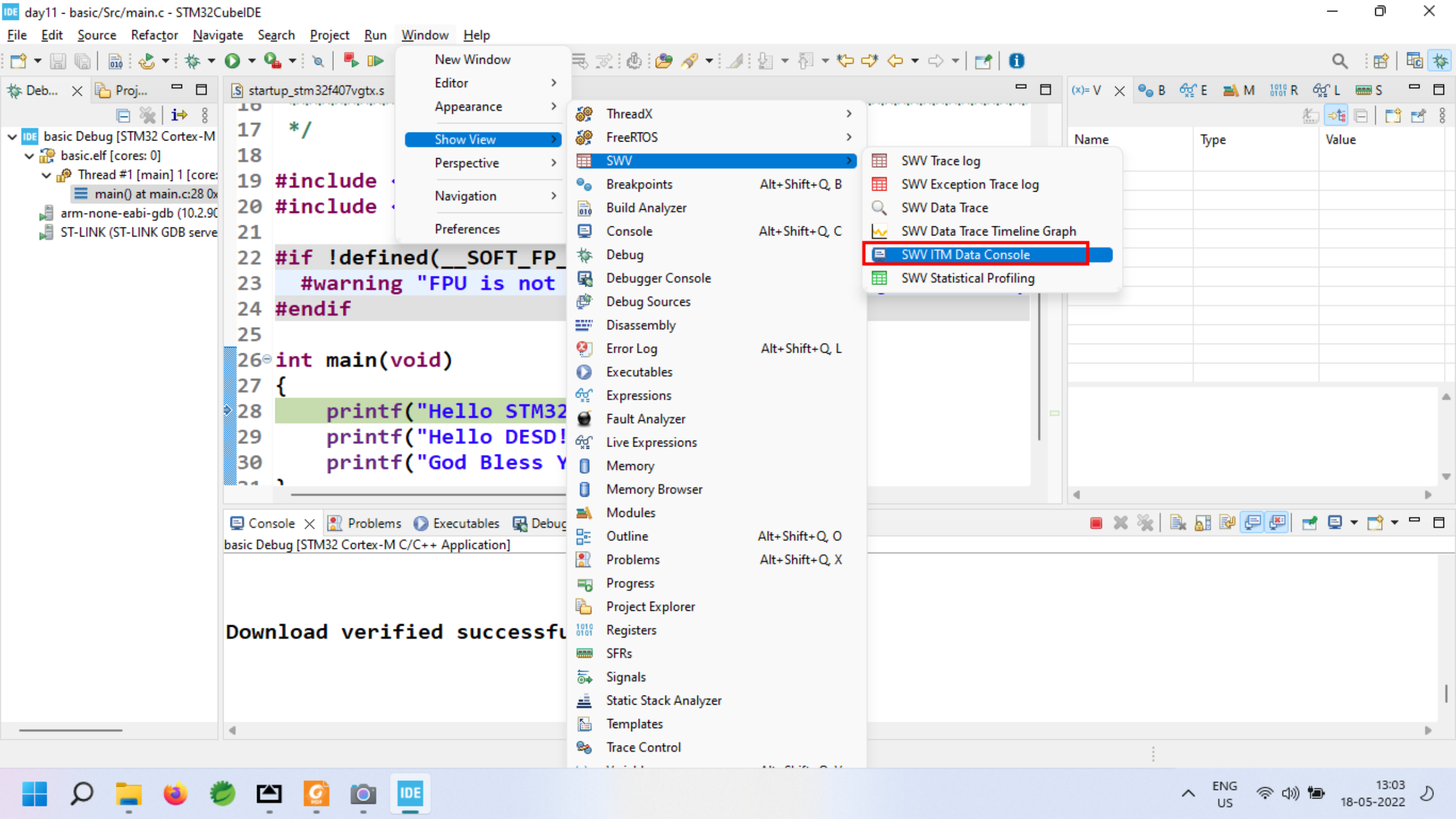
basic.elf - /basic/Debug - May 18, 2022, 12:59:00 PM

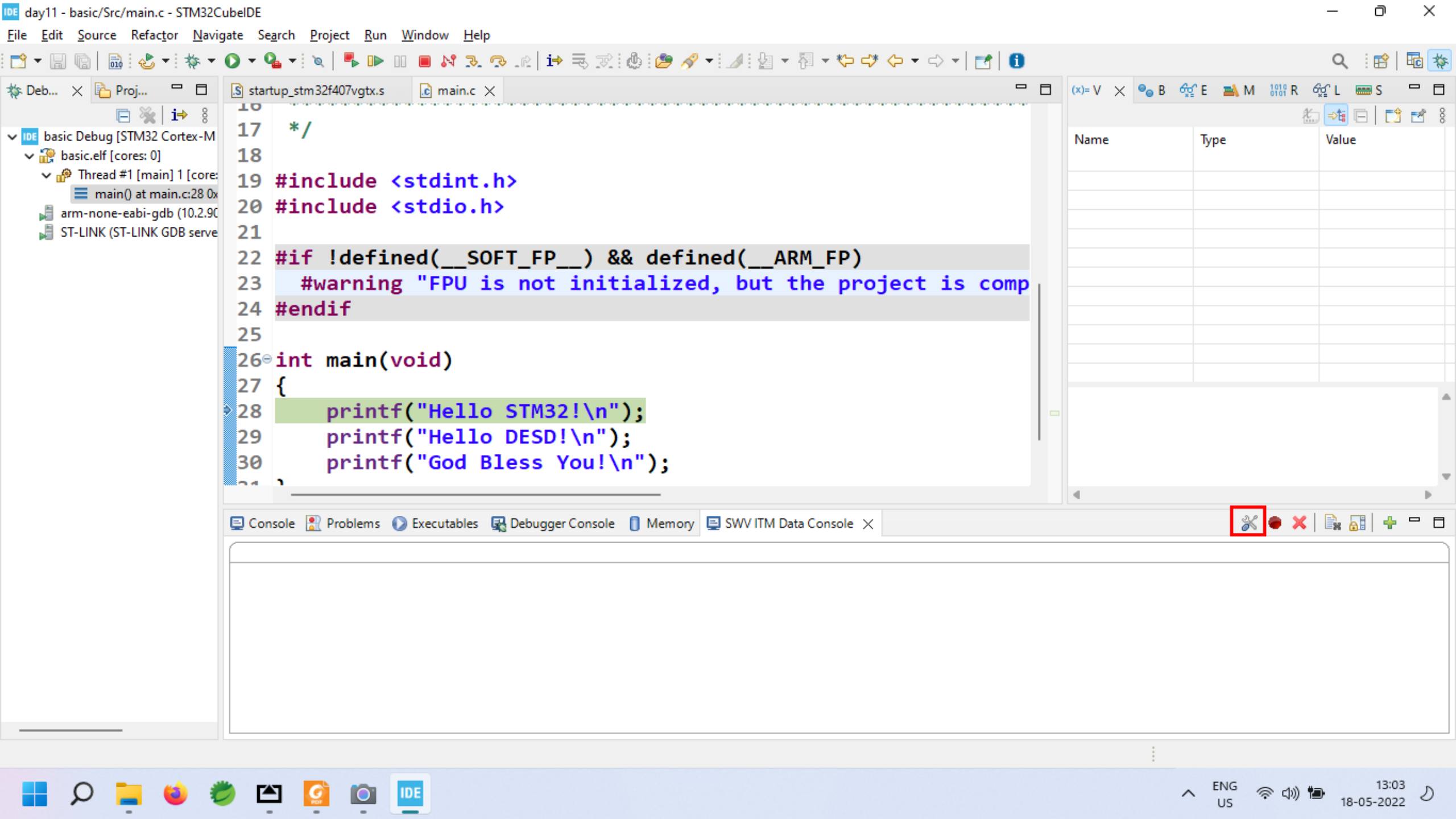
Memory Regions		Memory Details			
Region	Start address	End address	Size	Free	Used
CCMRAM	0x10000000	0x10010000	64 KB	64 KB	0 B
RAM	0x20000000	0x20020000	128 KB	126.35 KB	1.65 KB
FLASH	0x08000000	0x08100000	1024 KB	1020.06 KB	3.94 KB

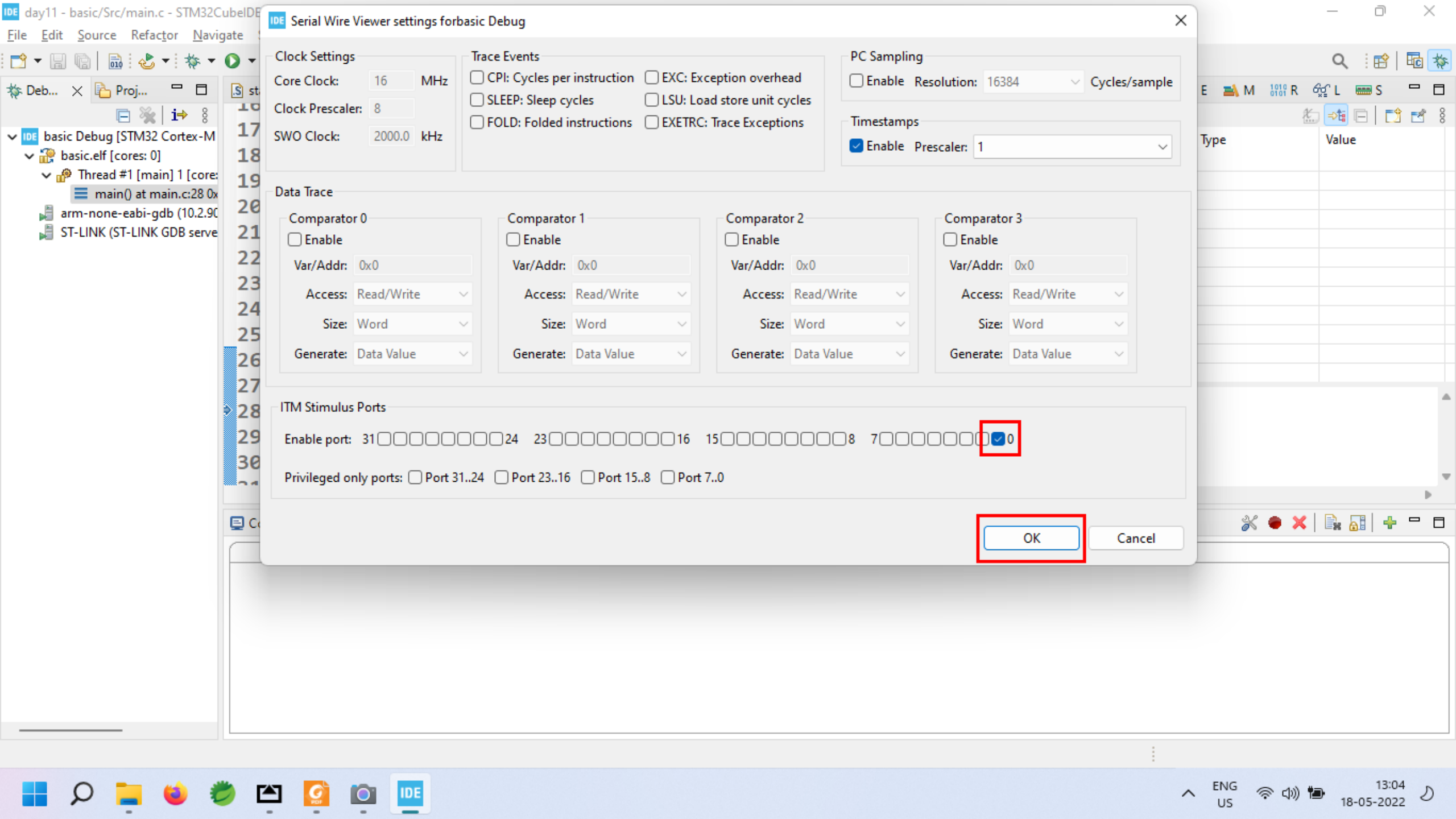


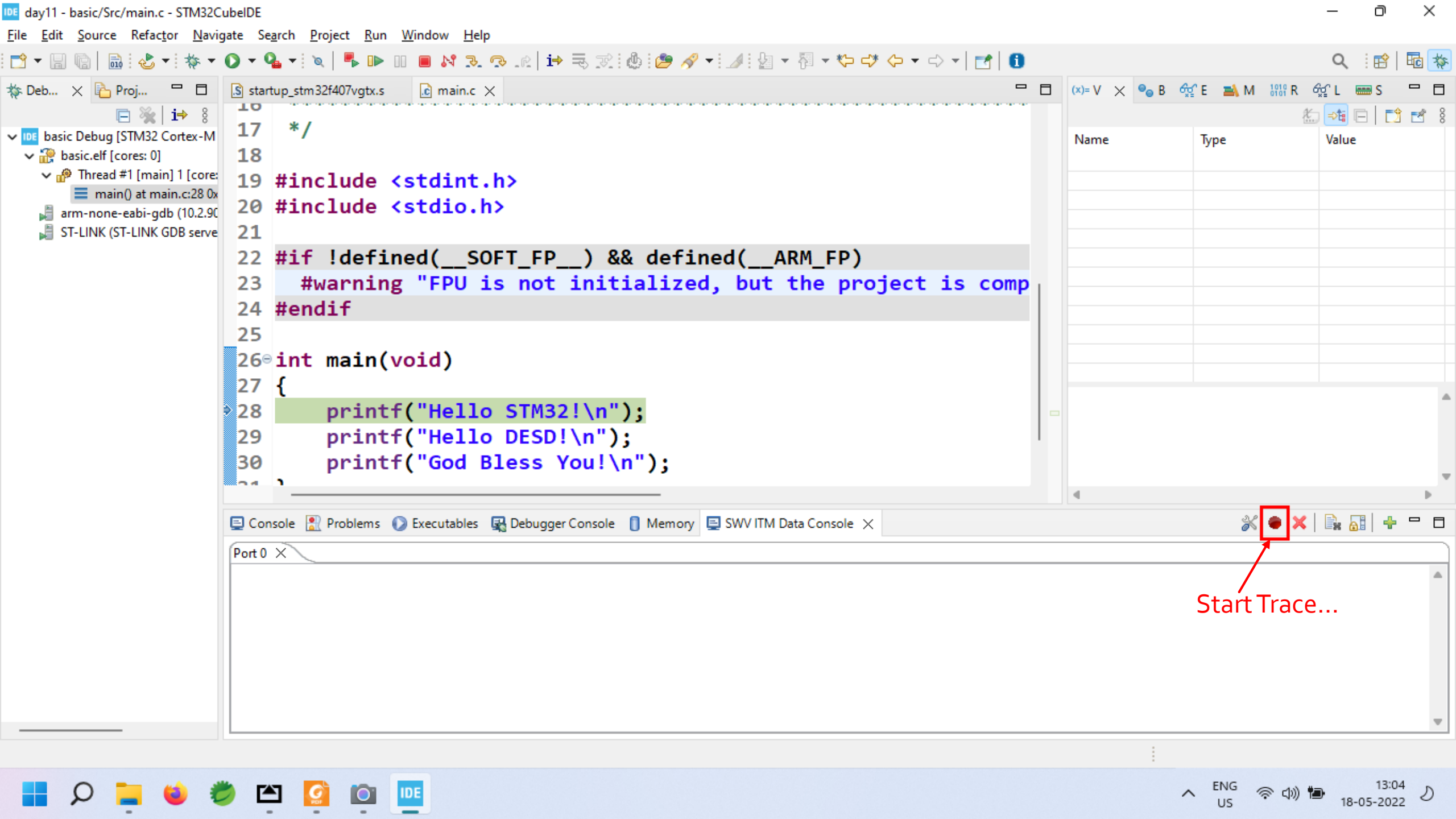


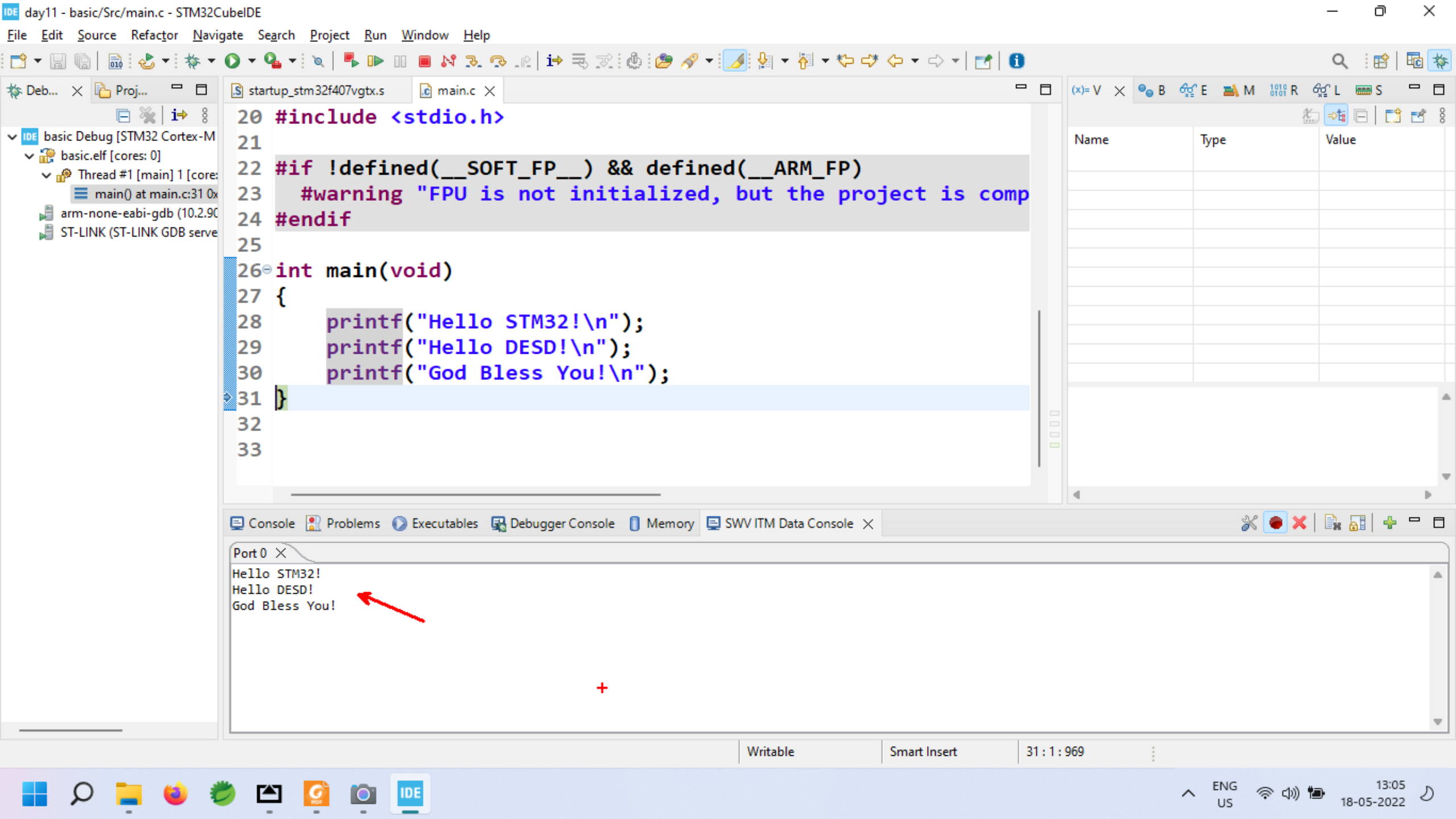














Thank you!

Nilesh Ghule <nilesh@sunbeaminfo.com>