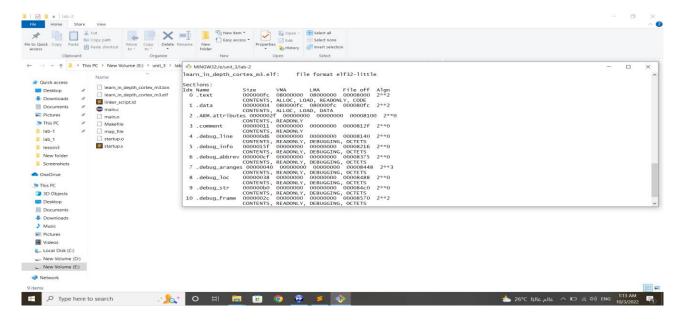
Embedded c lesson 3 lab2 AYMAN_GAMAL

STEPS

- Create main.c (using touch)
- Creat linkerscript.ld and startup.s/.c (using touch)
- creat makefile (to comiple all file in this location with cross toolchain)
- and get learn_in_depth_cortexm3.bin ,app.o,main.o,startup.o l
 learn_in_depth_cortexm3.elf (from makefile)
 - bass learn_in_depth_cortexm3.bin to our machine Hint(I use debug from cross toolchain (-gdwarf-2))

- <u>sections</u>



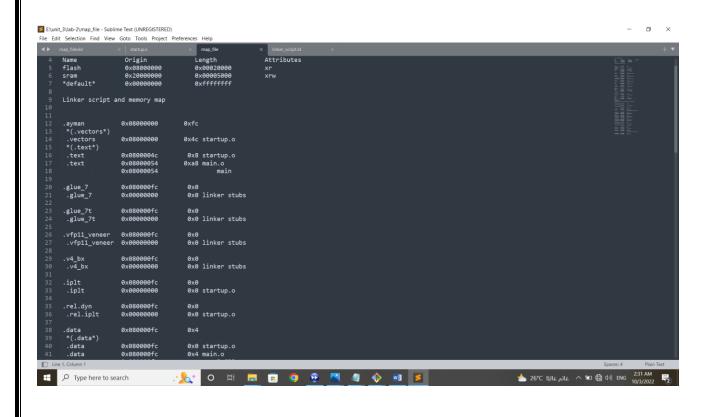
this using startup

```
learn_in_depth_cortex_m3.elf: file format elf32-little
Sections:
                         Size VMA LMA File off Algn 00000020 08000000 08000000 00008000 2**2
                         Size
  0 .ayman
                        CONTENTS, ALLOC, LOAD, DATA
0000104 08000020 08000020 00008020 2**2
CONTENTS, ALLOC, LOAD, READONLY, CODE
00000000 20000000 080001d4 00010000 2**2
CONTENTS, ALLOC, LOAD, DATA
0000100c 2000000c 080001e0 0001000c 2**2
 1 .text
 2 data
 3 .bss
 ALLOC
4 .debug_info 000002f7 00000000 00000000 0001000c 2**0
 CONTENTS, READONLY, DEBUGGING, OCTETS
0000014b 00000000 00000000 000106fe 2**0
CONTENTS, READONLY, DEBUGGING, OCTETS
00000011 00000000 0000000 00010849 2**0
CONTENTS, READONLY
  9 .debug_str
11 .ARM.attributes 00000003 0000000 0000000 001085a 2**0
CONTENTS, READONLY
12 .debug_frame 00000000 0000000 0000000 0010890 2**2
                        CONTENTS, READONLY, DEBUGGING, OCTETS
DR-Mosaad@LENOVO MINGW32 /e/unit_3/lab-2_startup.c
```

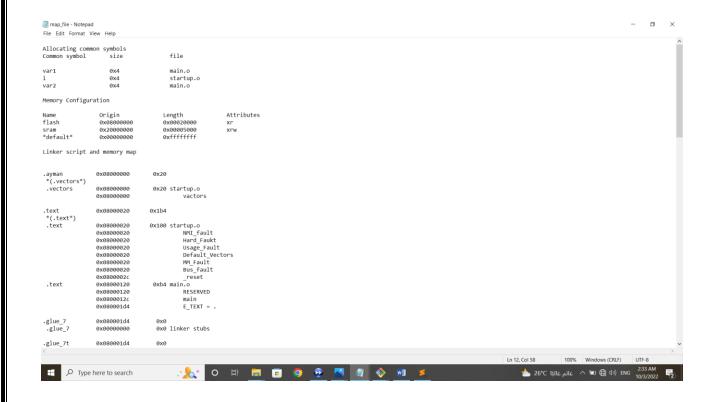
symbols

- Mapfile

Old using starrup.s



Using Startub.c



Readelf

