### Symbol Table of startup.o

### Symbol Table of main.o

```
Ahmed (master)
arm-none-eabi-nm.exe main.o
00000000 T main
Ahmed (master)
```

## Symbol Table of toggle\_led\_m4.elf

## Map file

```
Linker script and memory map
10
11
                                      0x194
12
    .text
                     0x00000000
13
    *(.vectors*)
14
                     0x00000000
                                       0x10 startup.o
     .vectors
15
                     0x00000000
                                                q p fn Vectors
    *(.text*)
16
17
                                       0xc8 main.o
     .text
                     0x00000010
18
                     0x00000010
                                                main
19
     .text
                     0x000000d8
                                       0xbc startup.o
20
                                                Hard Fault Handler
                     0x000000d8
21
                     0x000000d8
                                                Default Handler
                                                NMI Handler
22
                     0x000000d8
23
                     0x000000e4
                                                Reset Handler
24
     *(.rodata)
25
                     0x00000194
                                                E text = .
2.6
```

# **g\_p\_fn\_Vectors** is at the entry point of the cortex m4, and the first address is the stack pointer address.

```
.data
                                        0x0 load address 0x00000194
45
                     0x20000000
46
                     0x20000000
                                                S DATA = .
47
    *(.data)
                                        0x0 main.o
48
     .data
                     0x20000000
49
     .data
                     0x20000000
                                        0x0 startup.o
50
                     0x20000000
                                                \cdot = ALIGN (0x4)
                                                E DATA = .
51
                     0x20000000
52
53
                                        0x0 load address 0x00000194
    .igot.plt
                     0x20000000
54
    .igot.plt
                     0x00000000
                                        0x0 main.o
55
                                     0x400 load address 0x00000194
56
    .bss
                     0x20000000
57
                     0x20000000
                                                S bss = .
    * (.bss)
58
59
     .bss
                     0x20000000
                                        0x0 main.o
60
     .bss
                     0x20000000
                                      0x400 startup.o
                     0x20000400
                                                 E bss = .
61
```