

- Main.o sections

```
MINGW64:/d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiplo...
abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master)
$ arm-none-eabi-objdump.exe -h app.o

app.o:          file format elf32-littlearm

Sections:
Idx Name          Size      VMA           LMA           File off  Algn
  0 .text          00000028  00000000  00000000  00000034  2**2
    CONTENTS, ALLOC, LOAD, RELOC, READONLY, CODE
  1 .data          00000004  00000000  00000000  0000005c  2**2
    CONTENTS, ALLOC, LOAD, RELOC, DATA
  2 .bss           00000000  00000000  00000000  00000060  2**0
    ALLOC
  3 .rodata        0000001e  00000000  00000000  00000060  2**2
    CONTENTS, ALLOC, LOAD, READONLY, DATA
  4 .comment       0000007f  00000000  00000000  0000007e  2**0
    CONTENTS, READONLY
  5 .ARM.attributes 00000032  00000000  00000000  000000fd  2**0
    CONTENTS, READONLY

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master)
```

- Startup.o sections

```
MINGW64:/d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiplo...
abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master)
$ arm-none-eabi-objdump.exe -h startup.o

startup.o:      file format elf32-littlearm

Sections:
Idx Name          Size      VMA           LMA           File off  Algn
  0 .text          0000000c  00000000  00000000  00000034  2**2
    CONTENTS, ALLOC, LOAD, RELOC, READONLY, CODE
  1 .data          00000000  00000000  00000000  00000040  2**0
    CONTENTS, ALLOC, LOAD, DATA
  2 .bss           00000000  00000000  00000000  00000040  2**0
    ALLOC
  3 .ARM.attributes 00000022  00000000  00000000  00000040  2**0
    CONTENTS, READONLY

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master)
$ arm-none-eabi-objdump.exe -h uart.o
```

- UART.o sections

```
MINGW64:/d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSES...
abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSES...
$ arm-none-eabi-objdump.exe -h uart.o

uart.o:      file format elf32-littlearm

Sections:
Idx Name          Size      VMA       LMA       File off  Algn
  0 .text          00000054  00000000  00000000  00000034  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  1 .data           00000000  00000000  00000000  00000088  2**0
    CONTENTS, ALLOC, LOAD, DATA
  2 .bss            00000000  00000000  00000000  00000088  2**0
    ALLOC
  3 .comment        0000007f  00000000  00000000  00000088  2**0
    CONTENTS, READONLY
  4 .ARM.attributes 00000032  00000000  00000000  00000107  2**0
    CONTENTS, READONLY

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSES...
```

- application.elf sections

```
MINGW64:/d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSES...
abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSES...
$ arm-none-eabi-objdump.exe -h application.elf

application.elf:      file format elf32-littlearm

Sections:
Idx Name          Size      VMA       LMA       File off  Algn
  0 .startup_section 0000000c  00010000  00010000  00010000  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  1 .text_section    0000007c  0001000c  0001000c  0001000c  2**2
    CONTENTS, ALLOC, LOAD, READONLY, CODE
  2 .rodata          0000001e  00010088  00010088  00010088  2**2
    CONTENTS, ALLOC, LOAD, READONLY, DATA
  3 .data_section     00000004  000100a8  000100a8  000100a8  2**2
    CONTENTS, ALLOC, LOAD, DATA
  4 .ARM.attributes  0000002e  00000000  00000000  000100ac  2**0
    CONTENTS, READONLY
  5 .comment          0000007e  00000000  00000000  000100da  2**0
    CONTENTS, READONLY

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO...
```

- Symbols

```
MINGW64:/d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLOMAS/KSESDiplo...
abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO
MAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master
$ arm-none-eabi-nm.exe app.o
00000000 D data
00000000 T main
U uart_send_string

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO
MAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master
$ arm-none-eabi-nm.exe startup.o
U main
00000000 T reset
00000008 t stop

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO
MAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master
$ arm-none-eabi-nm.exe uart.o
00000000 T uart_send_string

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO
MAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master
$ arm-none-eabi-nm.exe application.elf
000100a8 D data
0001000c T main
00010000 T reset
000110ac D stack_pointer
00010008 t stop
00010034 T uart_send_string

abdul@Administrator MINGW64 /d/Courses/programming/NOW/EmbeddedSystems/Now/DIPLO
MAS/KSESDiploma/5.Assignments/Unit 3 (Embedded C)/Lecture 2/assignment 1 (master
```

- Simulation

