# Name: Mina Sabry Abdelmessih

ID:686876

# **CODES**:

## App.c

#### Uart.h

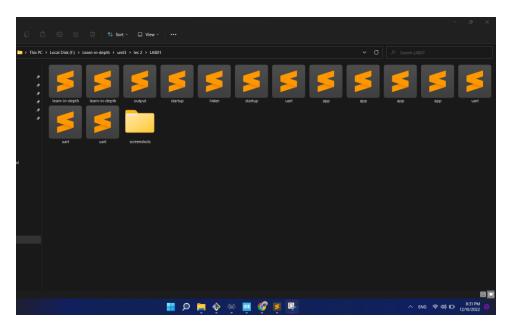
#### Uart.c

## Startup.s

### Linker.ld

```
| Decided and the control of the con
```

## <u>ALL</u>



#### RUN

```
minas@DESKTOP-RVLU67U MINGW64 /f/Learn-in-depth/unit3/lec 2/LAB01
$ arm-none-eabi-objdump.exe -h learn-in-depth.elf
                        file format elf32-littlearm
learn-in-depth.elf:
Sections:
                                                 File off Algn
Idx Name
                  Size
                            VMA
                                      LMA
                  00000010 00010000 00010000 00008000 2**2
 0 .startup
                  CONTENTS, ALLOC, LOAD, READONLY, CODE
                  00000068 00010010 00010010 00008010 2**2
 1 .text
                  CONTENTS, ALLOC, LOAD, READONLY, CODE
 2 .data
                  00000064 00010078 00010078 00008078 2**2
                  CONTENTS, ALLOC, LOAD, DATA
                  00000064 000100dc 000100dc 000080dc 2**2
  3 .rodata
 CONTENTS, ALLOC, LOAD, READONLY, DATA
4 .ARM.attributes 0000002e 00000000 00000000 00008140 2**0
                  CONTENTS, READONLY
                  00000011 00000000 00000000 0000816e 2**0
  5 .comment
                  CONTENTS, READONLY
```

\$ arm-none-eabi-objdump.exe -h learn-in-depth.elf

learn-in-depth.elf: file format elf32-littlearm

Sections:

Idx Name Size VMA LMA File off Algn

- 1 .text 00000068 00010010 00010010 00008010 2\*\*2 CONTENTS, ALLOC, LOAD, READONLY, CODE
- 2 .data 00000064 00010078 00010078 00008078 2\*\*2 CONTENTS, ALLOC, LOAD, DATA
- 3 .rodata 00000064 000100dc 000100dc 000080dc 2\*\*2 CONTENTS, ALLOC, LOAD, READONLY, DATA
- 4 .ARM.attributes 0000002e 00000000 00000000 00008140 2\*\*0
  CONTENTS, READONLY
- 5.comment 00000011 00000000 00000000 0000816e 2\*\*0

minas@DESKTOP-RVLU67U MINGW64 /f/Learn-in-depth/unit3/lec 2/LAB01 \$ qemu-system-arm -M versatilepb -m 128M -nographic -kernel learn-in-depth.bin mina sabry learn in depth