8/20/2023

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**Learn in depth diploma**

Assignment Lesson 2

Report of compilation, linking and simulation

# Contents

[1) Contents 1](#_Toc143387343)

[2) Files 2](#_Toc143387344)

[I- App.c 2](#_Toc143387345)

[II- Uart.c 2](#_Toc143387346)

[III- Uart.h 2](#_Toc143387347)

[IV- Startup.c 3](#_Toc143387348)

[V- Linker\_script.ld 3](#_Toc143387349)

[3) Compile files 4](#_Toc143387350)

[I- Commands for compile 4](#_Toc143387351)

[II- Show sections of object\_file 4](#_Toc143387352)

[a- App.o 4](#_Toc143387353)

[b- Uart.o 4](#_Toc143387354)

[c- Startup.o 4](#_Toc143387355)

[III- Show symbol table for object files 5](#_Toc143387356)

[4) Use linker\_script to get executable\_file and mab file 5](#_Toc143387357)

[I- Command 5](#_Toc143387358)

[II- Show sections for learn-in-depth.elf 5](#_Toc143387359)

[III- Show symbol table of learn-in-depth.elf 6](#_Toc143387360)

[5) Binary file to use in burn 6](#_Toc143387361)

[I- Command for get binary file 6](#_Toc143387362)

[II- Burn binary file on board using qemu 6](#_Toc143387363)

[a. Command 6](#_Toc143387364)

[b. Running 6](#_Toc143387365)

# Files

## App.c

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## Uart.c

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Description automatically generated

## Uart.h

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Description automatically generated

## Startup.c

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Description automatically generated

## Linker\_script.ld

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# Compile files

## Commands for compile

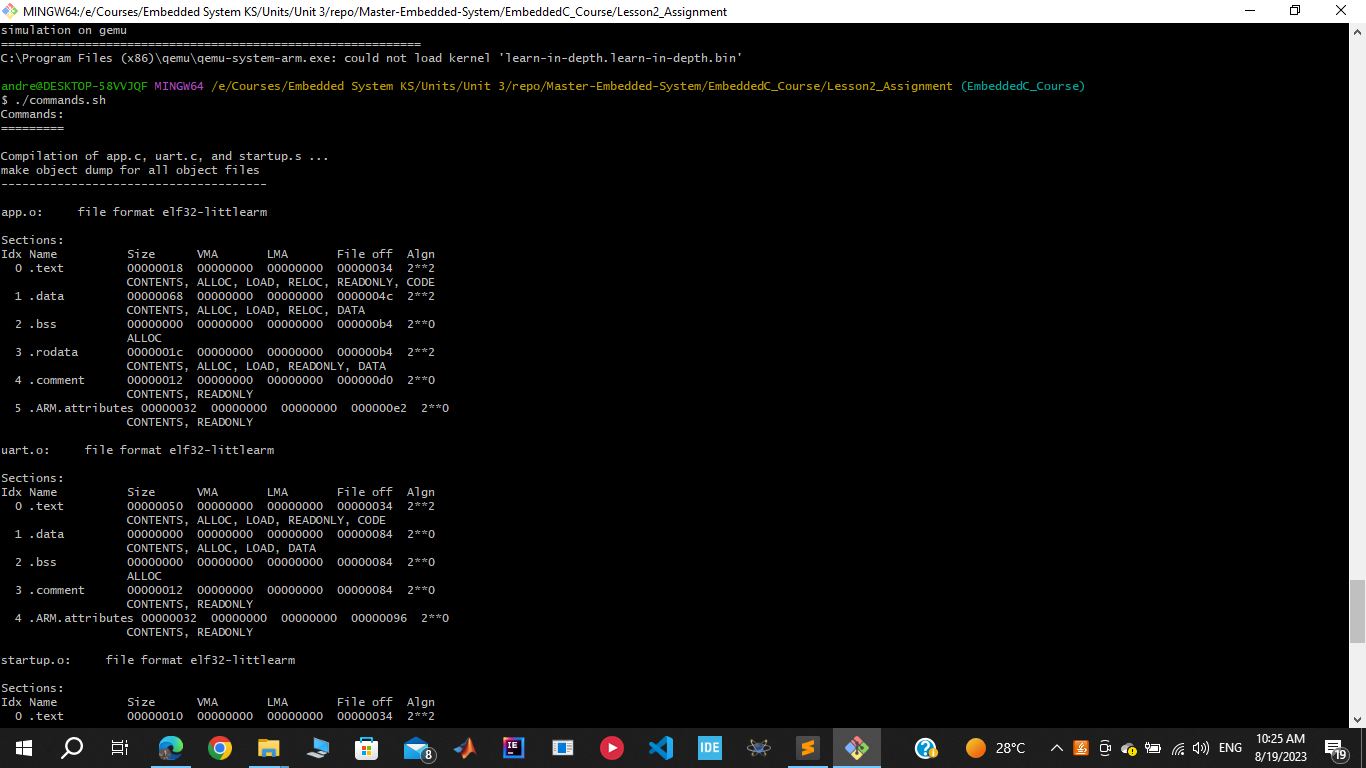
arm-none-eabi-gcc.exe -c -I . -mcpu=arm926ej-s app.c -o app.o

arm-none-eabi-gcc.exe -c -I . -mcpu=arm926ej-s uart.c -o uart.o

arm-none-eabi-as.exe -mcpu=arm926ej-s -g startup.s -o startup.o

## Show sections of object\_file

### App.o



### Uart.o

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### Startup.o

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Description automatically generated

## Show symbol table for object files

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Description automatically generated

# Use linker\_script to get executable\_file and mab file

## Command

arm-none-eabi-ld.exe -T linker\_script.ld startup.o app.o uart.o -o learn-in-depth.elf -Map=Map\_file.map

## Show sections for learn-in-depth.elf

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Description automatically generated

## Show symbol table of learn-in-depth.elf

A screenshot of a computer

Description automatically generated

# Binary file to use in burn

## Command for get binary file

arm-none-eabi-objcopy -O binary learn-in-depth.elf learn-in-depth.bin

## Burn binary file on board using qemu

### Command

qemu-system-arm -M versatilepb -m 128M -nographic -kernel learn-in-depth.bin

### Running

