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**Name: Andrew Adel Hosny Goued**

**Learn in depth diploma**

Assignment Lesson 2

Report of compilation, linking and simulation

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# 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

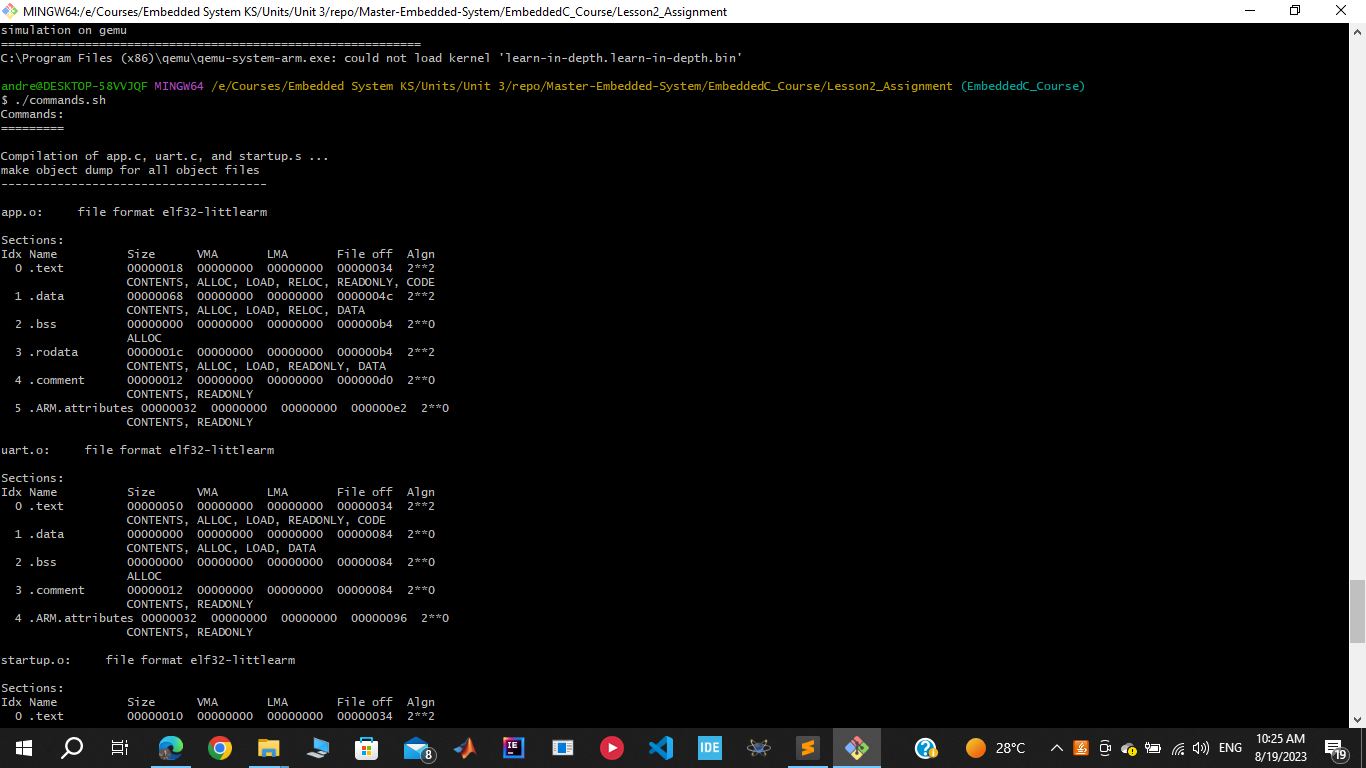
arm-none-eabi-gcc.exe -c -I . -mcpu=arm926ej-s app.c -o app.o

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

