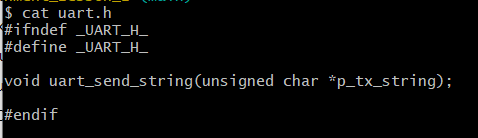
# **Lesson 2**

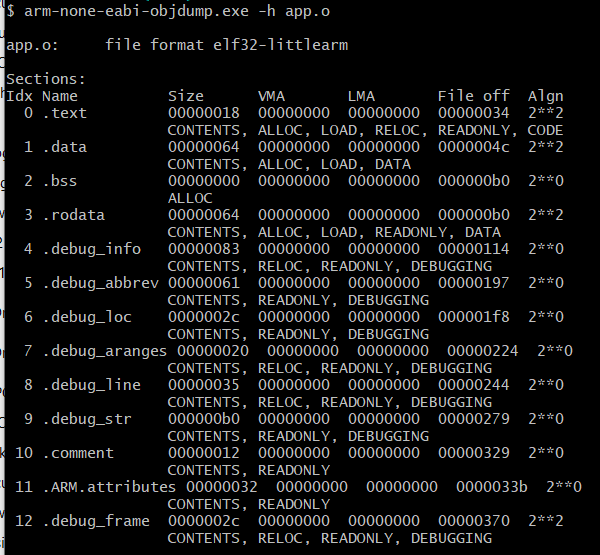
# App.c

# Uart.c

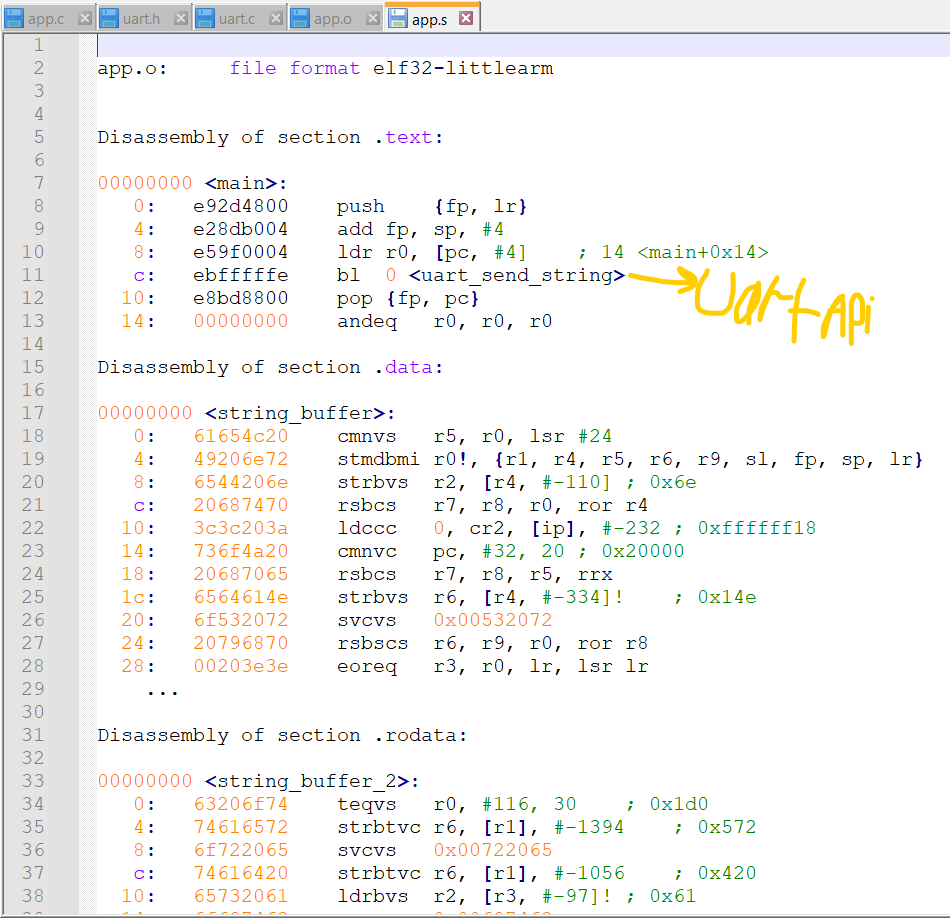
# Uart.h



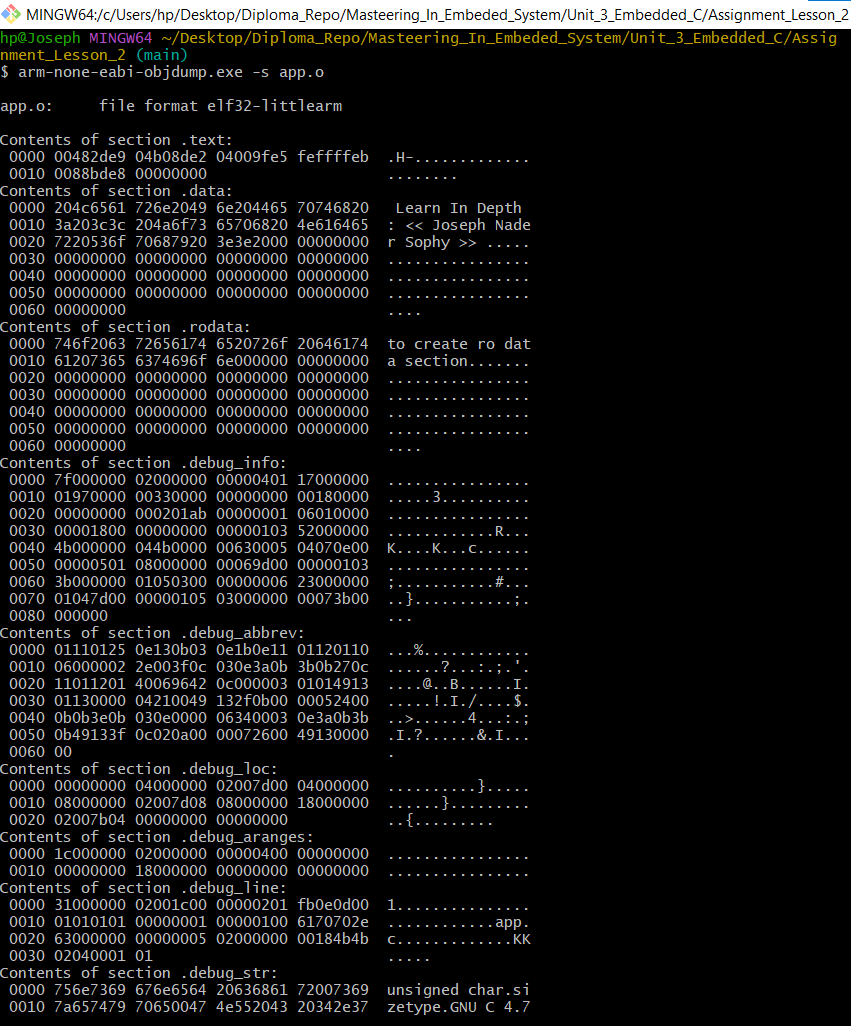
# Sections

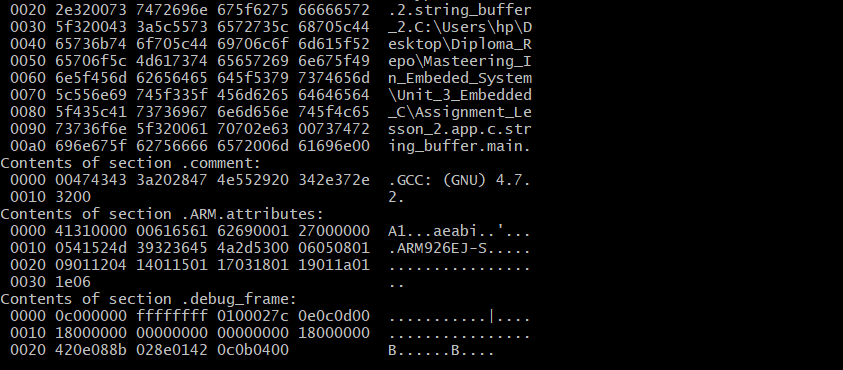


# Diassemply file from bin # arm-none-eabi-objdump.exe -D app.o > app.s

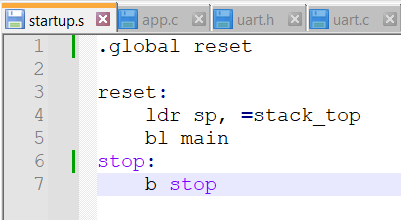


# Display the full content of all sections





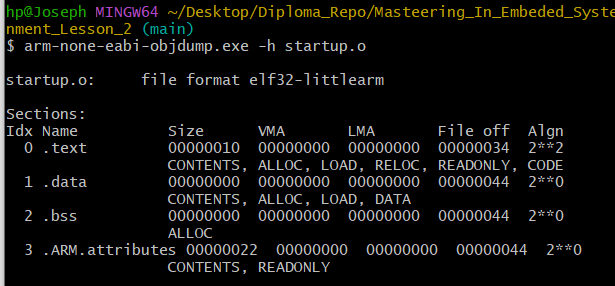
# Startup.s :



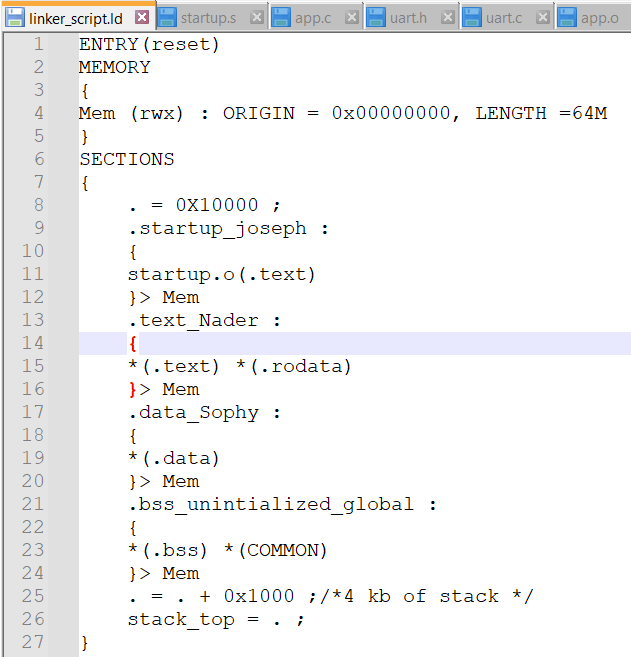
# Compile and analyze it

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

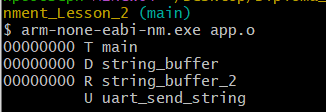
**$ arm-none-eabi-objdump.exe -h startup.o**

****

# Linker\_Script :



# To read the symbols you can use nm cross tool chain bin utility



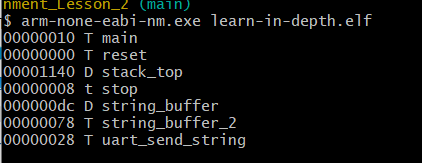


# Let us now to linking all the objects :

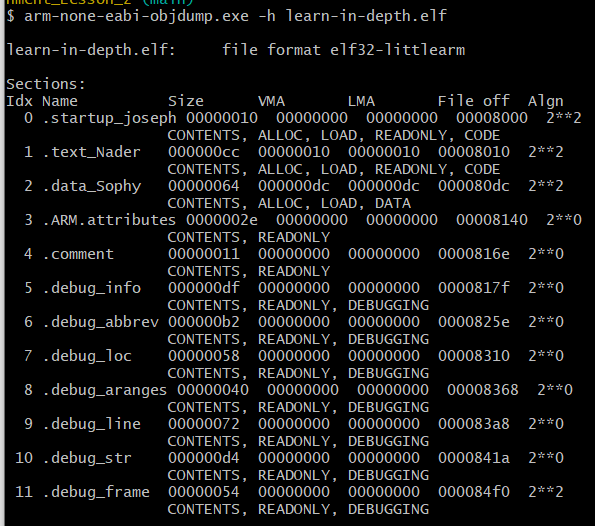
**$ arm-none-eabi-ld -T linker\_script.ld -Map=output.map app.o uart.o startup.o -o learn-in-depth.elf**

# Analyze the executable file

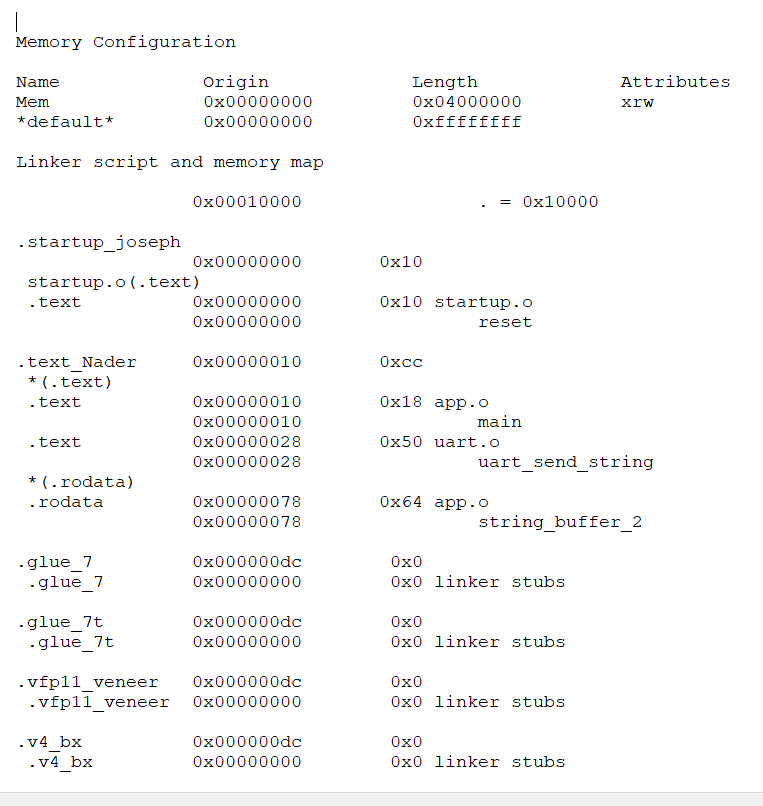
**$ arm-none-eabi-nm.exe learn-in-depth.elf**



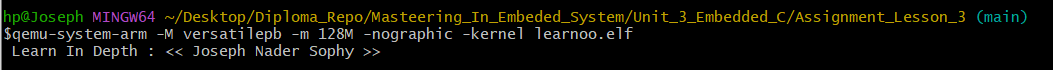
**Sections**

****

**Output.map**

****

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

****