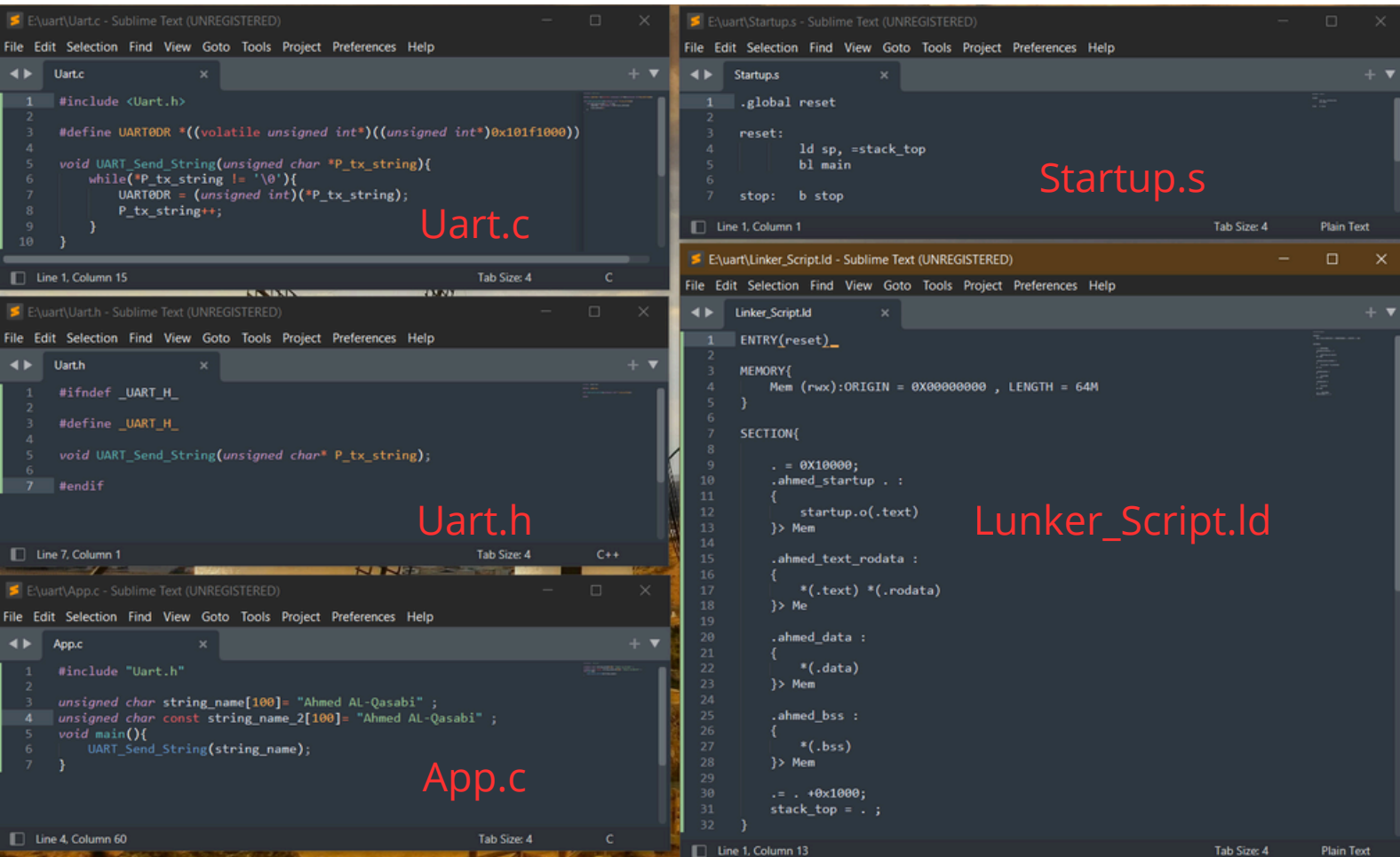
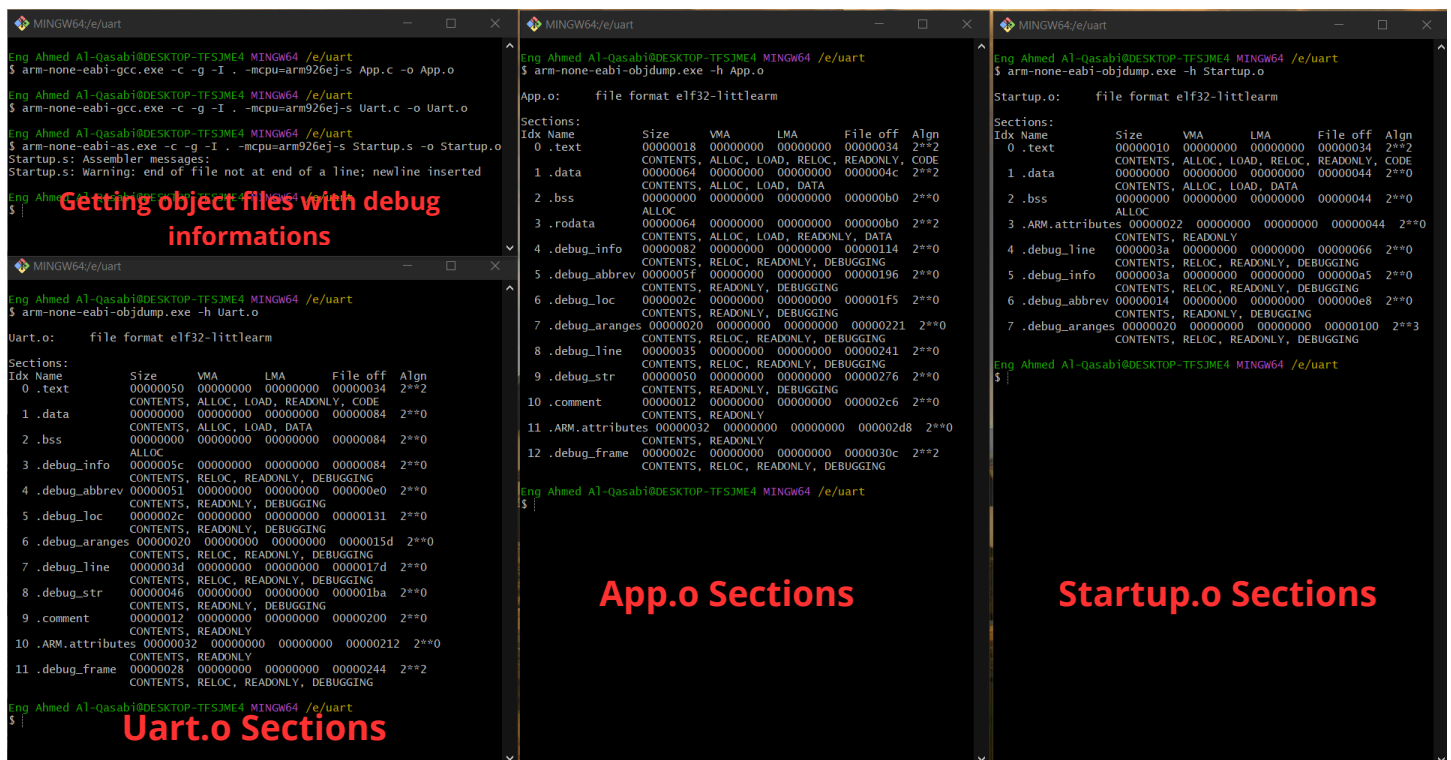


Lap_1 Report

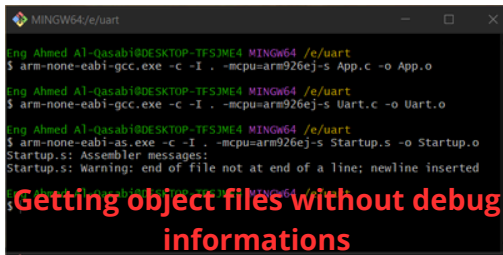
Writing code :



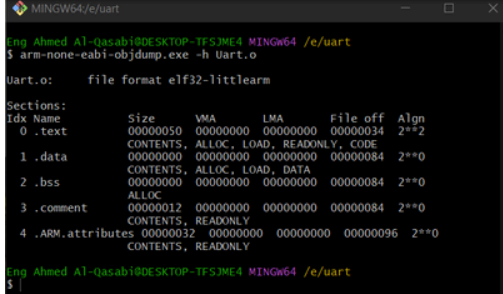
Getting object files With debug informations and sections :



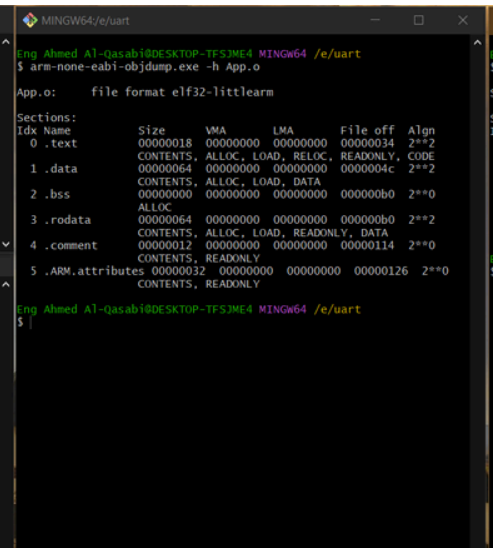
Getting object files Without debug informations and sections:



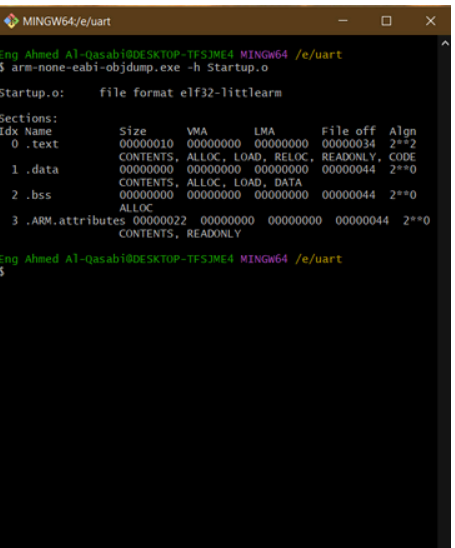
Getting object files without debug informations



Uart.o Sections

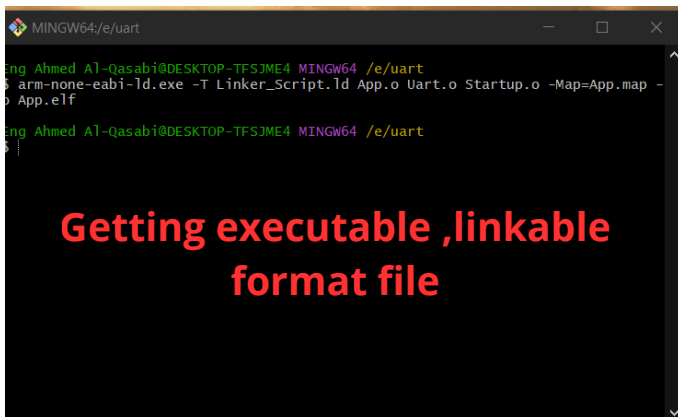


App.o Sections

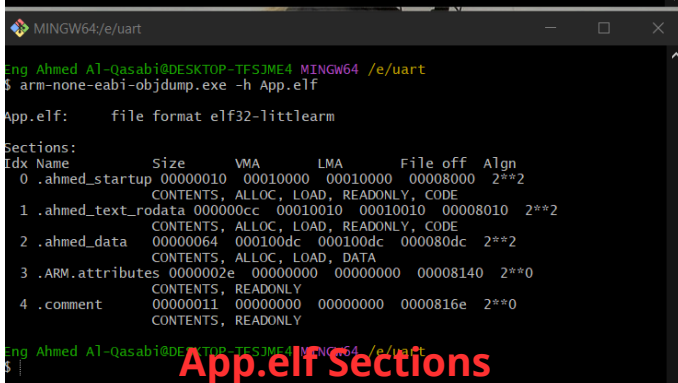


Startup.o Sections

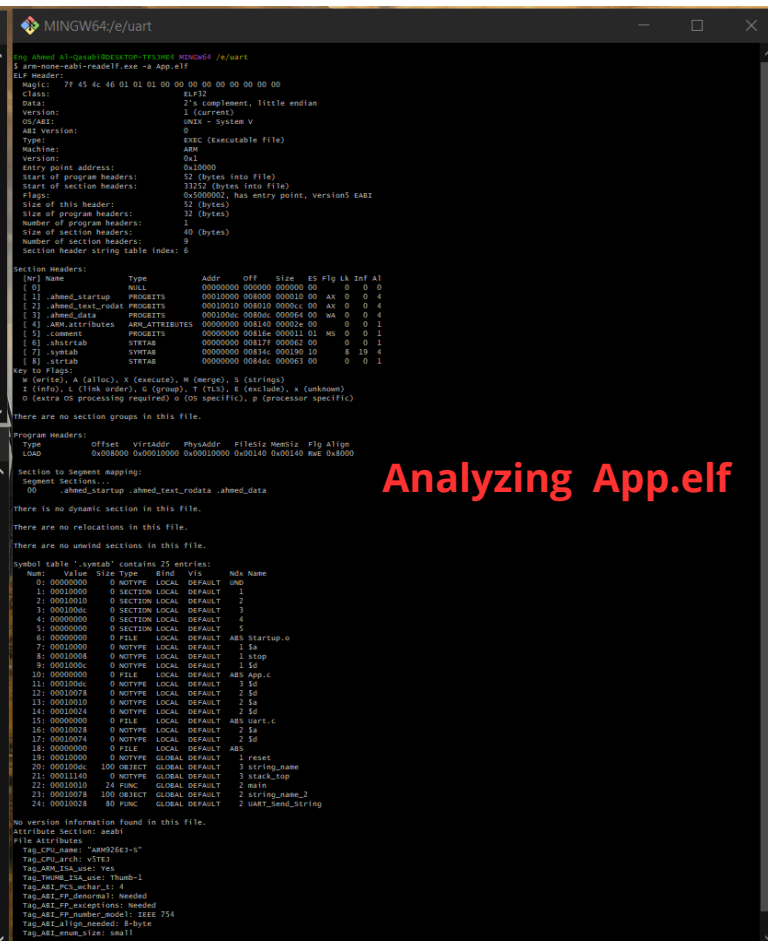
Getting executable ,linkable format file and sections :



Getting executable ,linkable format file

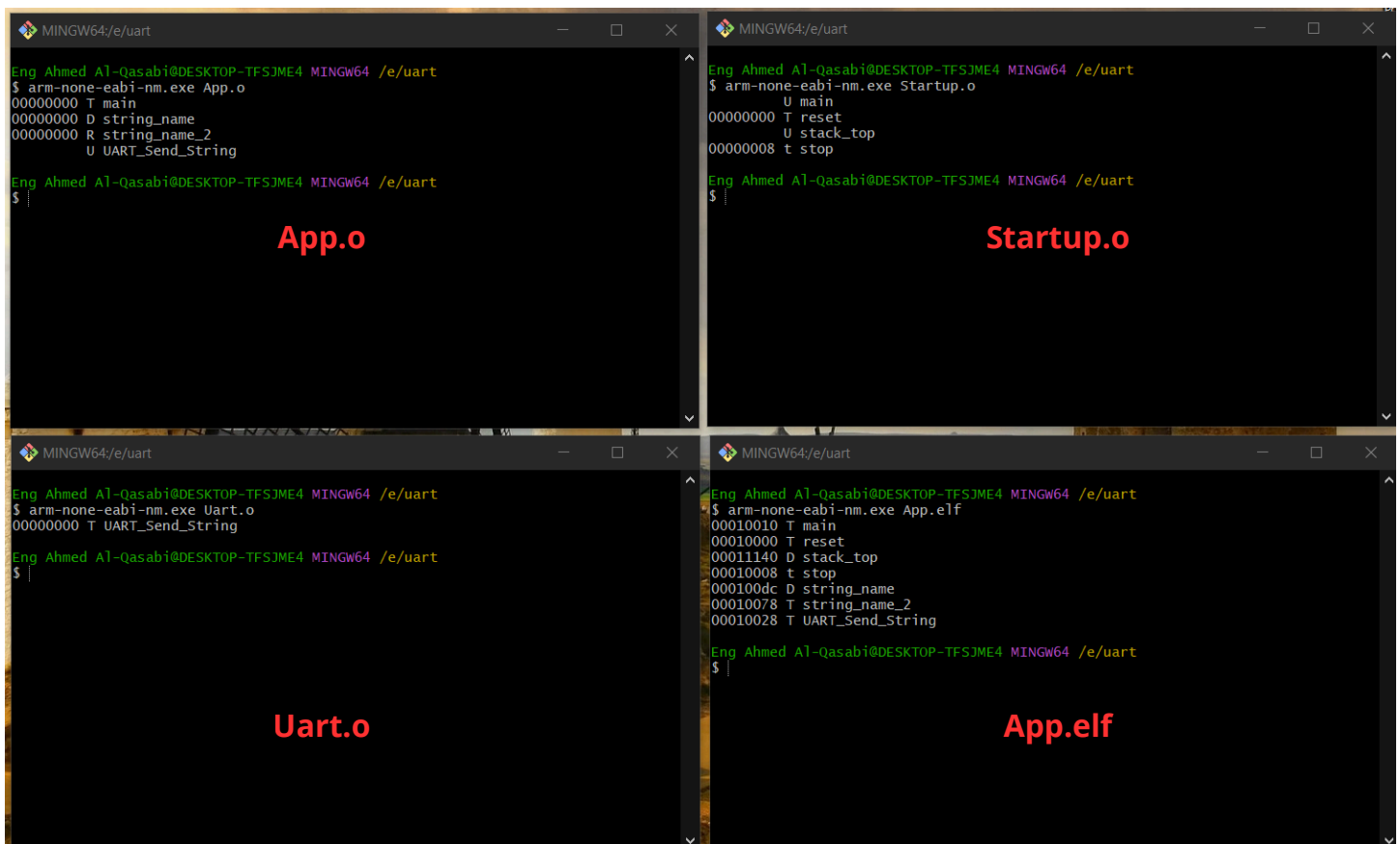


App.elf Sections



Analyzing App.elf

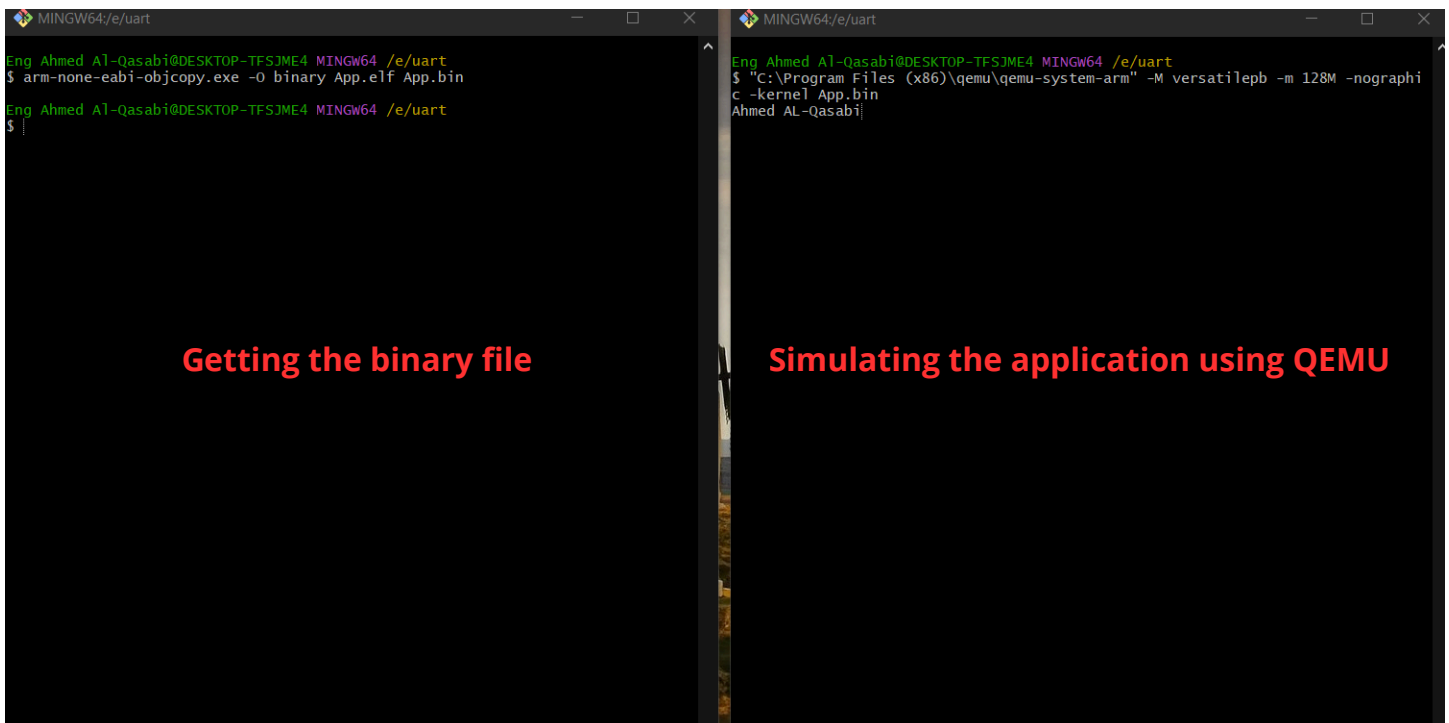
Getting the symbol table for the object files and the final elf file



The image displays four terminal windows, each showing the output of the `arm-none-eabi-nm` command for a different file. The windows are arranged in a 2x2 grid. Each window has a title bar that reads 'MINGW64:/e/uart'. The user is 'Eng Ahmed Al-Qasabi@DESKTOP-TFSJME4' and the terminal is running on 'MINGW64 /e/uart'.

- App.o**: Shows symbols for `main`, `string_name`, `string_name_2`, and `UART_Send_String`.
- Startup.o**: Shows symbols for `main`, `reset`, `stack_top`, and `stop`.
- Uart.o**: Shows symbols for `UART_Send_String`.
- App.elf**: Shows symbols for `main`, `reset`, `stack_top`, `stop`, `string_name`, `string_name_2`, and `UART_Send_String`.

Getting the binary file and simulating the application using QEMU



The image displays two terminal windows, each with a title bar that reads 'MINGW64:/e/uart'. The user is 'Eng Ahmed Al-Qasabi@DESKTOP-TFSJME4' and the terminal is running on 'MINGW64 /e/uart'.

- Getting the binary file**: The first terminal window shows the command `arm-none-eabi-objcopy.exe -O binary App.elf App.bin` being executed, resulting in the creation of `App.bin`.
- Simulating the application using QEMU**: The second terminal window shows the command `"C:\Program Files (x86)\qemu\qemu-system-arm" -M versatilepb -m 128M -nographic -kernel App.bin` being executed, resulting in the simulation of the application using QEMU.