Fadi Sarwat Farouk – 7432

#2 Packet Transmission

Assembly Code

```
DATA SEGMENT
    PACKETS  DW   0
    FINISHED DW   0
    TRANS    DW   0

#start=PacketTransmission.exe#

name "packets"

CODE SEGMENT

START: MOV AX,0
       OUT 112,AX
       IN AX, 110
       MOV PACKETS,AX

REPEAT:INC TRANS
       INC FINISHED
       DEC PACKETS

       CMP FINISHED,64
       JB  ELSE

       INC FINISHED
       DEC PACKETS
       JMP DONE

ELSE:  MOV CX,FINISHED
       CMP CX,PACKETS
       JAE BREAK
       SHL FINISHED,1        ; Multiply finished by 2
       SUB PACKETS,CX

DONE:  CMP  PACKETS,0
       JBE  BREAK
       CMP  FINISHED,128
       JNE  END
       MOV  FINISHED,0
END:   JMP  REPEAT

BREAK: MOV AX,TRANS
       OUT 112,AX
CODE ENDS
hlt
```
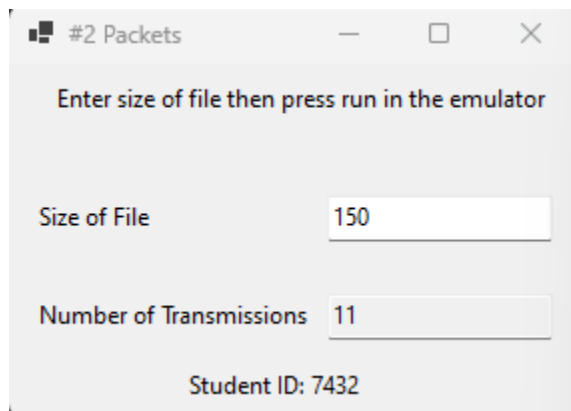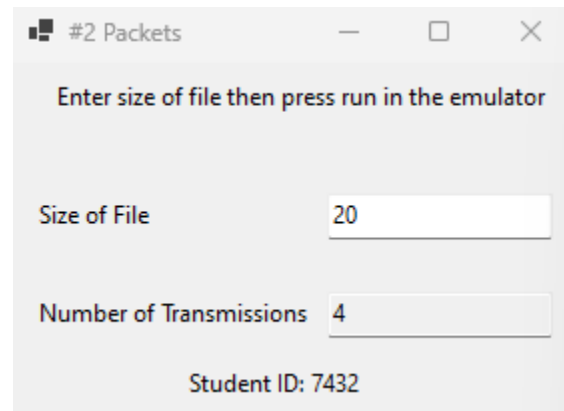
Result Sample
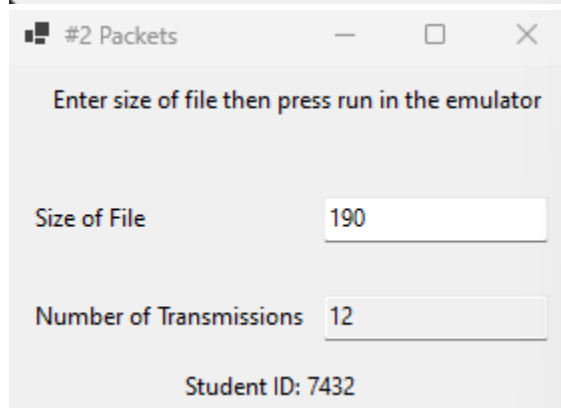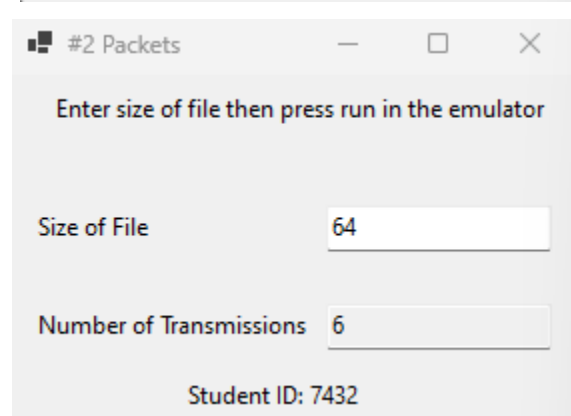
Comments

1) Add PacketTransmission.exe to C:\emu8086\DEVICES folder

2) Run the emu8086 emulator as Administrator (to have access to c:\emu8086.io file)

3) (Optional) If an error occurred about .NET Desktop runtime you must download and install and try step 2 again: https://dotnet.microsoft.com/en-us/download/dotnet/thank-you/runtime-desktop-7.0.5-windows-x64-installer

GitHub: https://github.com/Fadi-S/packets_emu8086