

#2 Packet Transmission

Assembly Code

```
DATA SEGMENT
    PACKETS      DW      0
    NUMBER       DW      1      ; NUMBER OF TRANSMITTED PACKETS
    TRANSMISSIONS DW      0

#start=PacketTransmission.exe#

name "packets"

CODE SEGMENT

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

REPEAT:     INC TRANSMISSIONS
            MOV CX,NUMBER
            SUB PACKETS,CX
            CMP PACKETS,0
            JLE BREAK

            CMP NUMBER,64
            JB  MULTIPLY
INCREMENT:  INC NUMBER
            JMP OUT

MULTIPLY:   SHL NUMBER,1      ; Multiply number by 2

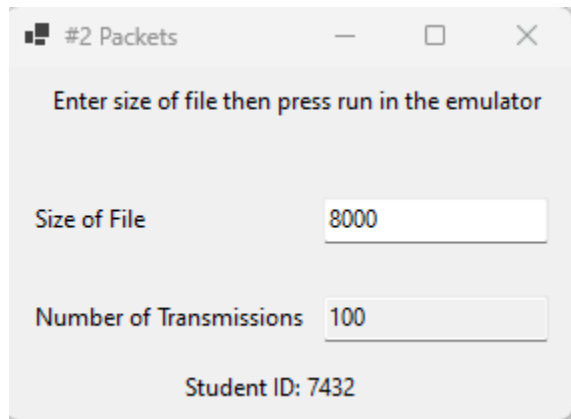
OUT:        CMP  NUMBER,128
            JNE REPEAT
            MOV  NUMBER,1
            JMP  REPEAT

BREAK:      MOV AX,TRANSMISSIONS
            OUT 112,AX

CODE ENDS

hlt
```

Result Sample



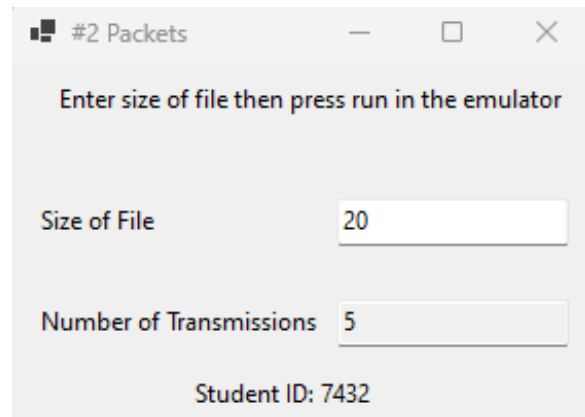
#2 Packets

Enter size of file then press run in the emulator

Size of File

Number of Transmissions

Student ID: 7432



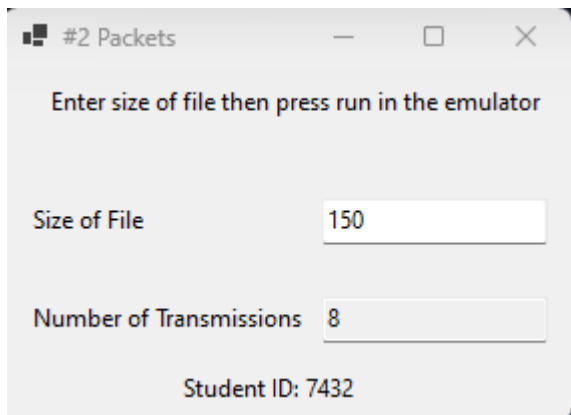
#2 Packets

Enter size of file then press run in the emulator

Size of File

Number of Transmissions

Student ID: 7432



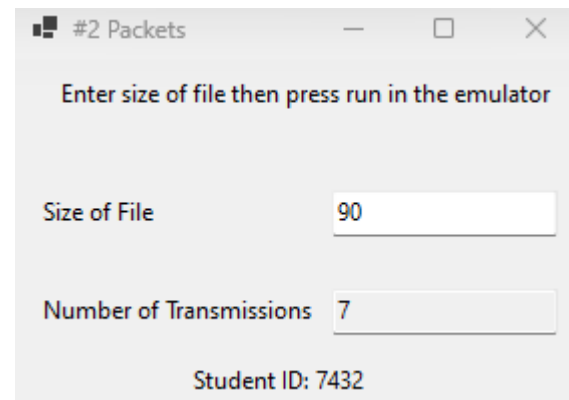
#2 Packets

Enter size of file then press run in the emulator

Size of File

Number of Transmissions

Student ID: 7432



#2 Packets

Enter size of file then press run in the emulator

Size of File

Number of Transmissions

Student ID: 7432

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