**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

# A screenshot of a computer Description automatically generated with medium confidenceA screenshot of a computer Description automatically generated with medium confidenceA screenshot of a computer Description automatically generated with medium confidenceA screenshot of a computer Description automatically generated with medium confidenceResult 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>