**Fadi Sarwat Farouk – 7432**

#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

A screenshot of a computer

Description automatically generated with medium confidenceA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated with medium confidenceResult Sample

A screenshot of a computer screen

Description automatically generated with medium confidence

# 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>