**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