Name: Jigar Siddhpura SAPID: 60004200155

DIV: C/C2 Branch: Computer Engineering

POA EXPERIMENT 7

Jigar Widdhpwra 60004210155
Experiment 7: Toursfer 'n' blocks of data from segments
colin: Implement assembly program to transfer in blocks of data segment from I block to other.
Theory :
code is written to transfer in blocks of data from Seg 1 to seg 2 (here 3 bytes of data). First section contains data & extra degment where seg 1 & 2 are defined vrespectively. In sode segment firstly actual execution is done where firstly data & extra segment are loaded i.e. DS & FS, then loading source & destination indices. bater, transfer loop is carried on where HOV AH, DS: [SI] emegns but boading byte from Source into AH register, where SI acts as offset & gets added with base DS. MOV FS: [DI], Att is same as above where DI acts as offset. The loop counter (CX) ensures that specified no of bytes is toansferred.
Conclusion: We implemented data transfer from seg 7 to 2 using assembly language on 8086 micropaorersor.
FOR EDUCATIONAL USE

Code:

DATA SEGMENT SEG1 DB 1H, 2H, 3H DATA ENDS

EXTRA SEGMENT SEG2 DB ? EXTRA ENDS

CODE SEGMENT

START:

MOV AX,DATA

MOV DS,AX

MOV AX,EXTRA

MOV ES,AX

LEA SI, SEG1

LEA DI, SEG2

MOV CX,03H

L1:

MOV AH,DS:[SI]

MOV ES:[DI],AH

INC SI

INC DI

DEC CX

JNZ L1

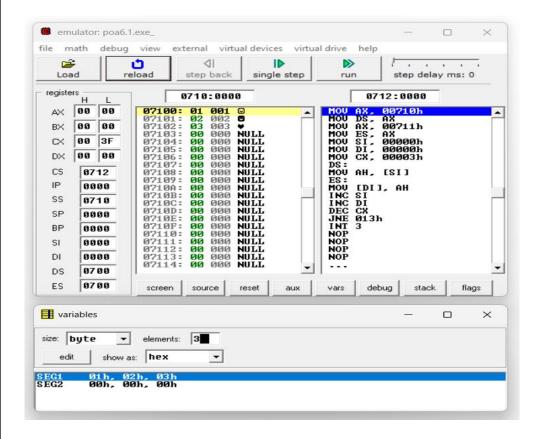
INT 3

ENDS

END START

Output:

• Before (seg1 has blocks and they are to transferred to seg2) -



• After (blocks are transferred to seg2) -

