

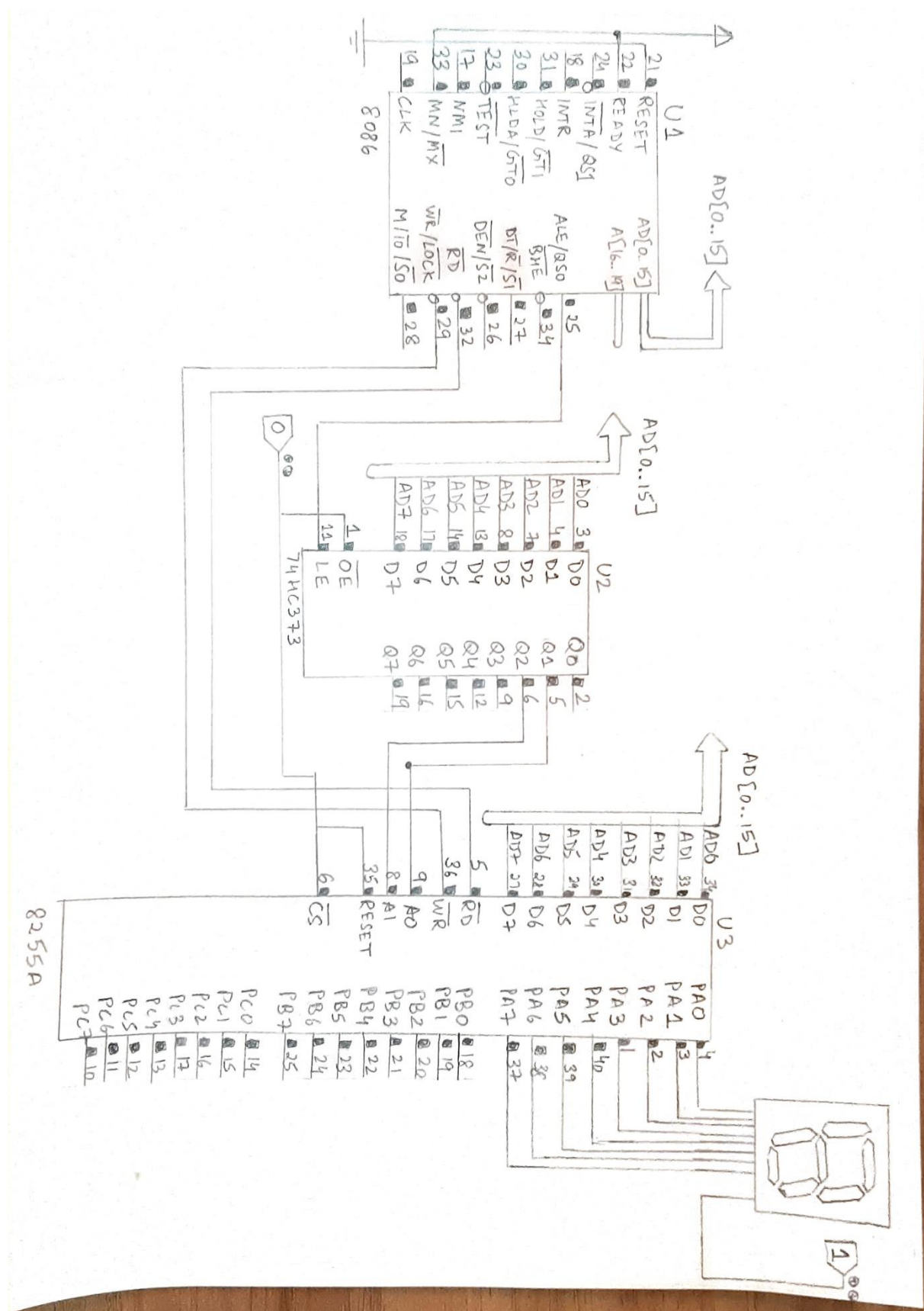
## Lab 7

P1: To Interface a 7 Segment LED to 8086 Microprocessor through 8255 Programmable Peripheral Controller using Proteus

Code:

<pre> DATA SEGMENT     PORTA EQU 00H     PORTB EQU 02H     PORTC EQU 04H     PORT_CON EQU 06H DATA ENDS  CODE SEGMENT     MOV AX, DATA     MOV DS, AX     ORG 0000H     START:     MOV DX, PORT_CON     MOV AL, 10000000B     OUT DX, AL     MOV SI, 0     MOV DI, 0     LO: MOV CX, 1FFFH     L2: MOV AL, SI[SI]     MOV DX, PORTA     OUT DX, AL     LOOP L2     INC SI     CMP SI, 16     JL LO      MOV DX, PORT_CON     MOV AL, 10000000B     OUT DX, AL     JMP START     ORG 1000H         </pre>	<pre> S1 DB 11000000B     DB <del>1000</del> 11111001B     DB 10100100B     DB 10110000B     DB 10011001B     DB 10010010B     DB 10000010B     DB 11011000B     DB 10000000B     DB 10010000B     DB 10001000B     DB 10000011B     DB 11000110B     DB 10100001B     DB 10000110B     DB 10001110B  CODE ENDS END         </pre>
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Circuit Diagram:



Output:

