

Ahsanullah University of Science & Technology

Department of Computer Science and Engineering

Course No : CSE3108

Course Title : Microprocessors

Set no : 14

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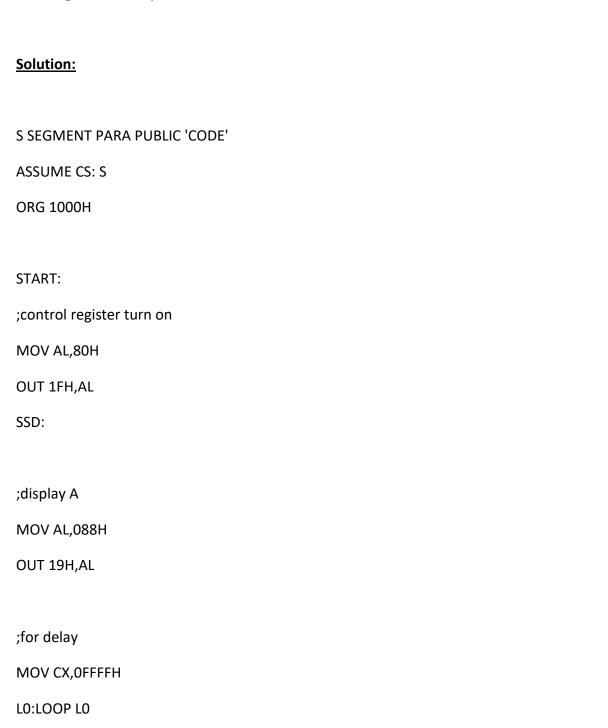
Section : A1

Year : 3rd

Semester: 1st

Assignment 1:

Write an assembly code to display A, 6, L in Seven Segment Display (SSD) respectively. After each segment a delay occur.



;display 6

MOV AL,082H

OUT 19H,AL

;for delay

MOV CX,0FFFFH

;display L

L1:LOOP L1

MOV AL,0C7H

OUT 19H,AL

;for delay

MOV CX,0FFFFH

L2:LOOP L2

JMP SSD

S ENDS

END START

Assignment2:

Write an assembly code to glow R2 and Y in LED Display respectively. After a delay G turn ON and then after a delay Y turn OFF. Again after a delay R1 turn ON.

Solution: L SEGMENT PARA PUBLIC 'CODE' ASSUME CS: L ORG 1000H START: ;control register turn on MOV AL,80H OUT 1FH,AL ;segment address forcefully off MOV AL,0FFH OUT 19H,AL LED: ;R2 AND Y LED turn on MOV AL, 0CH OUT 1BH,AL

;for delay
MOV CX,0FFFFH
LR1:LOOP LR1
;G LED turn ON
MOV AL,0EH
OUT 1BH,AL
;for delay
MOV CX,0FFFFH
LG:LOOP LG
;Y LED turn OFF
N40\/ A1 0A11
MOV AL,0AH
OUT 1BH,AL
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OUT 1BH,AL
OUT 1BH,AL ;for delay
OUT 1BH,AL ;for delay MOV CX,0FFFFH
OUT 1BH,AL ;for delay MOV CX,0FFFFH
OUT 1BH,AL ;for delay MOV CX,0FFFFH LY:LOOP LY
;for delay MOV CX,0FFFFH LY:LOOP LY ;R1 LED turn ON

;for delay

MOV CX,0FFFFH

LR2:LOOP LR2

JMP LED

L ENDS

END START