

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No: CSE3108

Course Title: Microprocessors Sessional

Assignment No: 03

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Section :B

Question: Show the desired output in Seven Segment and LED display: '55109', Y(ON)-G(ON)-Y+G(OFF)-R1+R2(ON)

Answers:

DSEG SEGMENT 'DATA'
DSEG FNDS

S SEG SEGMENT STACK 'STACK'

DW look DUP(!)

SSEG ENDS

CSEG SEGMENT CODE

START PROC FAR

PUSH DS MOV AX, U

PUSH AX

MOV AX, DSEG

MOV DS, AX

MOV ES, AX

STEP1:

MOV DX, 20304 MOV AL, OIIOIIOIB OUT DX, AL

MOV DX, 20704

MOV AL, 02H

Mor CX,0090H

Lo: Loop 40

STEP 2: MOV DX, 2031h MOV A1,011011016 OUT DX, AL

MOV DX, 20704

MOV AL, OBH OUT DX, AL MOV QX, 0090 H L9: LOOP L9

STEP 3:

MOV DX, 20324 MOV AL, 00000110b OUT DX,AL

MOV DX, 2070h

SOF

MOVAL,OOH OUT DX, AL MOV CX, 0090H 'L2: LOOP L2

STEP 4:

MOV DX, 2033h MOV AL,001110016 OUT DX, AL MOV Dx, 2070h

> MOV AL, 09H OUT DX, AL MOV 0X,0090H L3: LOOP 13

STEP5:

MOV DX, 2034H

MOV AL, 017011116

OUT DX, AL

Mov Cx, 0050H

L4: LOOP L4

RET

START ENDP

CSEG ENDS

END START