



**Ahsanullah University of Science & Technology**

**Department of Computer Science & Engineering**

**Course No : CSE3108**

**Course Title : Microprocessors Sessional**

**Assignment No : 02**

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Question: show the desired output in LED display:

$Y(ON) - G_1(ON) - Y+G_1(OFF) - R_1+R_2(ON)$

Answer:

DSEG SEGMENT 'DATA'

DSEG ENDS

SSEG SEGMENT STACK 'STACK'

DW 100h DUP(?)

SSEG ENDS

CSEG SEGMENT 'CODE'

START PROC FAR

PUSH DS

MOV AX, 0

PUSH AX

MOV AX, DSEG

MOV DS, AX

MOV ES, AX

MOV DX, 2070h

PART1:

MOV AL, 02H

OUT DX, AL

MOV CX,0090H

LO: LOOP LO

PART 2:

MOV AL,06H

OUT DX,AL

MOV CX,0090H

L1: LOOP L1

PART 3:

MOV AL,00H

OUT DX,AL

MOV CX,0090H

L2: LOOP L2

~~PART 4:~~

PART 4:

MOV AL,09H

OUT DX,AL

MOV CX,0050H

L3: LOOP L3

RET

START ENDP

CSEG ENDS

END START