



Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE3108
Course Title : Microprocessors Sessional
Assignment No : 03

Date of Submission :19-07-2021

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Section : A

Assignment - 3.

OH0A1 — Y(ON) - G(ON) - G(OFF) - R1+R2(ON)

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```
DS EG  SEGMENT 'DATA'
DS EG  ENDS
SS EG  SEGMENT STACK 'STACK'
        DW 100H DUP(?)
SS EG  ENDS
CS EG  SEGMENT 'CODE'
START  PROC FAR

        PUSH DS
        MOV AX, 0
        PUSH AX

        MOV AX, DS EG
        MOV DS, AX
        MOV ES, AX
```

MOV DX, 2030H

MOV AL, 00111111b

OUT DX, AL

MOV DX, 2070H

MOV AL, 0010b ; Y(ON)

OUT DX, AL

MOV CX, 0FFH

L1: LOOP L1

MOV DX, 2031H

MOV AL, 0110110b

OUT DX, AL

MOV DX, 2070H

MOV AL, 0110b ; Y(ON) and G(ON)

OUT DX, AL

MOV CX, 0FFH

L2: LOOP L2

MOV DX, 2032H

MOV AL, 00111111b

OUT DX, AL

MOV DX, 2070H

MOV AL, 0010b ; G(OFF) and Y(ON)

~~MOV~~ OUT DX, AL

MOV CX, 0FFH

L3: LOOP L3

MOV DX, 2033h

MOV AL, 01110111b

OUT DX, AL

MOV DX, 2070h

MOV AL, 1011b; Y(ON), R2+R2(ON)

OUT DX, AL

MOV CX, 0FFH

L4: LOOP L4

MOV DX, 2034h

MOV AL, 00000110b

OUT DX, AL

MOV CX, 0FFH

L5: LOOP L5

RET

START ENDP

ORG ENDS

END START