

Ahsanullah University of Science & Technology Department of Computer Science & Engineering

Course No : CSE3108

Course Title : Microprocessors Sessional

Assignment No : 03

Date of Submission : 25-07-2021

Submitted To : Ms. Qamrun Nahar Eity & Ms. Tahsin Aziz

Submitted By-

Group: B2

Name : S. M. Tasnimul Hasan

Id: 180204142

Section : B

Question:

1 S 4 T 2	R2+Y(ON)-G(ON)-Y(OFF)-R1(ON)

Scanned with CamScanner

Answerz:

DSEG SEGMENT 'DATA'

DSEG ENDS

SSEG SEGMENT STACK STACK

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

MAINLOOP:

MOV DX, 2030h

; first seven segment display

MOV AL, 000001106

; show 1.

OUT DX, AL

MOV DX, 2070h

MOV AL, OAH

; R2+Y (ON)

OUT DX, AL

MOV CX, 0100 H

LO: LOOP LO

MOV DX, 2031 h

; second seven segment display

mov AL, 011011b ; show S

OUT AX, AL

MOV DX, 2070h

MOV AL, OEH

; R2+Y(ON) - G(ON)

Scanned with CamScanner

OUT DX, AL

MOV CX, 0100H

L1: LOOP L1

MOV DX, 2032h

; third seven segment display

MOV AL, 011001106

; show 4

OUT DX, AL

MOV DX, 207-0 h

MOV AL, OCH

; R2+Y (ON) - G(ON) - Y (OFF)

OUT DX, AL

MOV CX, 0100H

L2: LOOP L2

MOV DX, 2033h

; fourth seven segment display

MOV AL, 011110006

; show T

OUT DX, AL

MOV DX, 2070h

MOV AL, ODH

; R2+Y(ON) - G(ON) - Y(OFF) - R1 (ON)

Scanned with CamScanner

OUT DX, AL

MOV CX, 0100 H

L3: LOOP L3

MOV DX, 2034h; Jisth seven segment display

Scanned with CamScanner

MOV AL, 010110116

; show 2

OUT DX, AL

RET

START ENDP

CSEG ENDS

> END START