

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

Course No : CSE3108

Course Title : Microprocessors Sessional

Assignment No : 05

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

Submitted By-

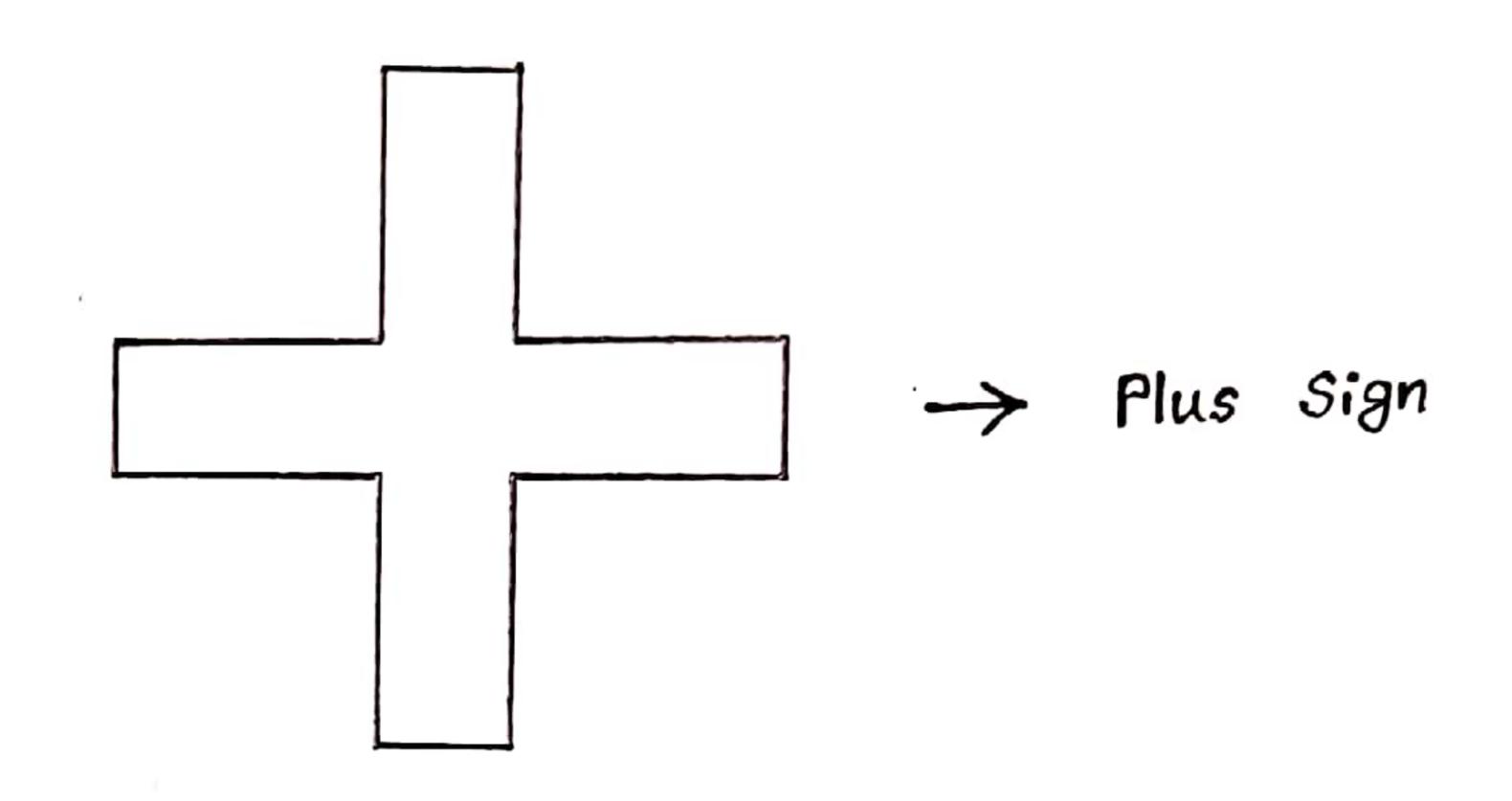
Group: B2

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Section : B

Question: Drzaw the given shape in dot matrix display and show the initials of the shape in the seven segment display.



Scanned with CamScanner

Answerz:

SEGMENT 'DATA' DSEG

DSEG ENDS

SSEG SEGMENT STACK 'STACK'

DW 100h DUP (?)

SSEG ENDS

CSEG SEGMENT 'CODE'

START PROC

Push DS

MOV AX, O

ΑX push

MOV AX, DSEG

MOV DS, AX

MOV ES, AX

; DOT MATRIX

MOV DX, 2003H

MOV AL, 0000 00016

OUT DX, AL

MOV CX, 100H

L1: LOOP L1

MOV DX, 2003H

MOV AL, 0000 00116

OUT DX, AL

MOV CX, 100H

L2: LOOP L2

MOV DX, 2003H

MOV AL, 0000 01116

OUT DX, AL

MOV CX, 100H

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L3: L00P L3

MOV DX, 2002 H

MOV AL, 0000 0100b

OUT DX, AL

MOV CX, 100H

L4: LOOP L4

MOV DX, 2001 H

MOV AL, 0000 01006

OUT DX, AL

MOV CX, JOOH

L5: LOOP L5

MOV DX, 2001 H

MOV AL, 0000 11006

OUT DX, AL

MOV CX, 100H

16: 100b 1-6

MOV DX, 2001 H

MOV AL, 0001 11006

Scanned with CamScanner

OUT DX, AL

MOV CX, 100H

L7: LOUP L7

MOV DX, 2002H

MOV AL, 0001 0100b

OUT DX, AL

MOV CX, 100H

L8: LOOP L8

MOV DX, 2003H

MOV AL, 0001 0111b

OUT DX, AL

MOV CX, 100H

L9: LOOP L9

MOV DX, 2003 H

MOV AL, 0011 01116

OUT DX, AL

MOV CX, 100 H

L10: L00P L10

Scanned with CamScanner

MOV DX, 2003 H

MOV AL, 0111 01116

OUT DX, AL

MOV CX, 100H

L11: LOOP L11

MOV DX, 2004 H

MOV AL, 0100 00006

OUT DX, AL

MON CX, 100H

L12: LOUP L12

MOV DX, 2005H

MOV AL, 0100 00006

OUT DX, AL

MOV CX, 100H

L13: LOOP L13

MOV DX, 2005 H

MOV AL, 0110 0000 b

Scanned with CamScanner

OUT DX, AL

MOV CX, 100H

L14: LOOP L14

MOV DX, 2005H

MOV AL, 0111 0000b

OUT DX, AL

MOV CX, 100 H

L15: LOOP L15

MOV DX, 2006 H

MOV AL, 0001 00006

OUT DX, AL

MOV CX, 100H

L16: LOOP L16

MOV DX, 2007H

MOV AL, 0001 00006

OUT DX, AL

MOV CX, 100 H

L17: LOOP L17

Scanned with CamScanner

MOV DX, 2007 H

MOV AL, 0001 1000b

OUT DX, AL

MOV CX, 100H

L18: LOOP L18

MOV DX, 2007H

MOV AL, 0001 11006

OUT DX, AL

MOV CX, 100H

L19: LOOP L19

MOV DX, 2006 H

MOV AL, 0001 0100b

OUT DX, AL

MOV CX, 100H

L20: L00P L20

MOV DX, 2005H

MOV AL, 0111 01006

Scanned with CamScanner

OUT DX, AL

MOV CX, 100H

L21: LOOP L21

MOV DX, 2005 H

MOV AL, 0111 01106

OUT DX, AL

MOV CX, 100H

L22: LOOP L22

MOV DX, 2005H

MOV AL, 0111 01116

OUT DX, AL

MOV CX, 100H

L23: L00P L23

MOV DX, 2004 H

MOV AL, 0100 00016

OUT DX, AL

MOV CX, 100H

L24: LOOP L24

Scanned with CamScanner

MOV DX, 2030 h

; 1st seven segment Display

MOV AL, 0111 00116

OUT DX, AL

MOV CX, 100H

L25: LOOP L25

MOV DX, 2031 h

; and seven segment Display

Scanned with CamScanner

MOV AL, 0110 11016

OUT DX, AL

MOV CX, 100 H

L26: LOOP L26

RET

START ENDP

CSEG ENDS

END START