

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

Course No : CSE3108

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Section : B

Question: prow the given shape in dot matrix display and glow the four LEDs according to the initials.

Forz "Plus sign" P >> Glow Red 2

S >> Glow Red 1

Answerz:

DSEG SEGMENT 'DATA'

DSEG ENDS

SSEG SEGMENT STACK 'STACK'

DW 100h DUP (?)

SSEG ENDS

CSEG SEGMENT 'CODE'

START PROC FAR

PUSH DS

MOV AX, O

PUSH AX

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

L3 : LOOP L3

MOV DX, 2002 H

MOV AL, 0000 01006

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, JOOH

16: 100P 16

MOV DX, 2001 H

MOV AL, 0001 11006

OUT PX, 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 01116

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: LOOP L10

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

MOV CX, 100 H

L12: LOUP L12

MOV DX, 2005H

MOV AL, 0100 0000b

OUT DX, AL

MOV CX, 100H

L13: LOOP L13

MOV DX, 2005 H

MOV AL, 0110 0000 b

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 PX, 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 JOOH

L17: LOOP L17

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 01006

OUT DX, AL

MOV CX, 100H

L20: LOOP L20

MOV DX, 2005H

MOV AL, 0111 01006

OUT DX, AL

MOV CX, 100H

L21: LOOP L21

MOV DX, 2005H

MOV AL, 0111 01106

OUT DX, AL

MOV CX, 100H

L22: LOOP L22

MOV DX, 2005H

MOV AL, 0.111 01116

OUT DX, AL

MOV CX, 100H

L23: LOOP L23

MOV DX, 2004H

MOV AL, 0100 00016

OUT DX, AL

MOV CX, 100H

L24: LOOP L24

MOV DX, 2070 H ; R2

MOV AL, 0000 1000 b

OUT DX, AL

MOV CX, 100H

L25: LOOP L25

MOV DX, 2070H ; R1

MOV AL, 0000 10016

OUT DX, AL

RET

START ENDP

CSEG ENDS

END START