



Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE3108
Course Title : Microprocessors Sessional
Assignment No : 06

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Section : A

Assignment 8.

DSEG SEGMENT 'DATA'

Dots DB 00001000b, 00000100b, 00000010b,
00000001b, 00000001b, 00000001b,
00000001b, 00000001b, 00000100b,
00001000b, 00010100b, 001000100b,
010000010b, 01000001b, 01000001b,
01000001b, 00100010b, 00010100b

DSEG ENDS

SSSEG SEGMENT STACK 'STACK'

DW 100h DUP(?)

SSSEG ENDS

CSEG SEGMENT 'CODE'

START PROC FAR

PUSH DS

MOV AX, 0

PUSH AX

MOV AX, DSEG

MOV DS, AX

MOV ESI, AX

MOV DX, 2000h

MOV BX, 0

MOV SI, 0

MOV AL, Dots[BX][SI]

OUT DX, AL

MOV DX, 2001h

MOV BX, 0

MOV SI, 1

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2002h

MOV BX, 0

MOV SI, 2

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2003h

MOV BX, 0

MOV SI, 3

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2004h

MOV BX, 0

MOV SI, 4

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2005h

MOV BX, 0

~~MOV~~
MOV

SI, 5

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2006h

MOV BX, 0

MOV SI, 6

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2007h

MOV BX, 0

MOV SI, 7

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2008h

MOV BX, 0

MOV SI, 8

MOV AL, Dots [BX] [SI]

OUT DX, AL

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MOV DX, 2009h
MOV BX, 0
MOV SI, 9
MOV AL, Dots[BX][SI]
OUT DX, AL

MOV DX, 2008h
MOV BX, 0
MOV SI, 10
MOV AL, Dots[BX][SI]
OUT DX, AL

MOV DX, 2007h
MOV BX, 0
MOV SI, 11
MOV AL, Dots[BX][SI]
OUT DX, AL

MOV DX, 2006h
MOV BX, 0
MOV SI, 12
MOV AL, Dots[BX][SI]
OUT DX, AL
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MOV DX, 2005h

MOV BX, 0

MOV SI, 13

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2004h

MOV BX, 0

MOV SI, 14

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2003h

MOV BX, 0

MOV SI, 15

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2002h

MOV BX, 0

MOV SI, 16

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2001h

MOV BX, 0

MOV SI, 17

MOV AL, Dots[BX][SI]

OUT DX, AL

MOV DX, 2070h

MOV AL, 0001 ; R1 turn on

OUT DX, AL

RET

START ENDP

SEG2 ENDS

END START,