



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 By-

Group : A₂

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Section : A

Assignment 5.

DS SEGMENT 'DATA'

Dots DB 00001000b, 00000100b, 00000010b,
00000001b, 00000001b, 00000001b,
00000001b, 00000010b, 0000100b,
00001000b, 0001010b, 00100010b,
01000001b, 01000001b, 01000001b,
01000001b, 00100010b, 00010100b

NUMBERS DB 0110110b

DS ENDS

SS SEGMENT STACK 'STACK'

DW 100h DUP(?)

SS ENDS

CS SEGMENT 'CODE'

START PROC FAR

PUSH DS

MOV AX, 0

PUSH AX

MOV AX, DS

MOV DS, AX

MOV ES, 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, BOT. [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 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

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, 2006 h

MOV BX, 0

MOV SI, 12

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2005 h

MOV BX, 0

MOV SI, 13

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2004 h

MOV BX, 0

MOV SI, 14

MOV AL, Dots [BX] [SI]

OUT DX, AL

MOV DX, 2003 h

MOV BX, 0

MOV SI, 15

MOV AL, Dots [BX] [SI]

OUT DX, AL

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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, Dot [BX] [SI]
OUT     DX, AL

MOV     DX, 2030h
MOV     SI, 0
MOV     AL, NUMBERS [SI]
OUT     DX, AL

RET

START   ENDP
CSEG    ENDS

        END START

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