

## **Ahsanullah University of Science & Technology**

## **Department of Computer Science & Engineering**

Course No : CSE3108

Course Title : Microprocessors Sessional

Assignment No : Bonus Assignment

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**Submitted By-**

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Section : A

```
DSECT SEGMENT 'DATA'
DEEN ENDS
SEE OI SEGMENT STACK (STACK)
     DW 100 h DUP (?)
SSEG ENDS
ester SEGMENT (CODE)
START PROC FAR
      PUSH DS
      MOV AY, O
      PUSH AX
      MOV AX DSEC
      MOV DS, AX
      MOV ES, AX
; WAME! MINHAJ
; 7D : 001
M
MION DX, 2000 4
MOY AL, 040 H
OUT DX, AL
MOV DX, 2030H
MOV AL, 00000001b
OUT DX, AL
MOV CX, 20H
```

MOV DX, 2000 H

KONB AL, OGOH

OUT DX, AL

MOV Dx, 2000 H

MOV AL, OFOH

OUT DX, AL

MOV DX, 2000 H

MOV AL, OF8H

DUT DX, AL

MOV DX, 2000H

MOY AL, O7CH

OUT DX , AL

MION DX, 2000H

MOV AL, OXEH

OUT DX, AL

MION DX, 2000H

MOV PL, OFFH

OUT DX, AL

MOV DX, 2030H

MOV AL, 00000011 b

OUT DX, AL

MOV CK, 20H

MOV DX, 2001H

MOV AL, 02H

OUT DX, AL

MOV DX, 2002 H

MOV AL, OYH

OUT DX, AL

MOV DX, 2030 H

MOY AL, 000001116

OUT DX, AL

mor ex, roll

MOY DX , 2003 H

MOY AL, 024

OUT DX, AL

MOV. DX, 2004 H

MON PL, OIH

OUT DX, AL

MOV DX, 2030 H

MOY AL, 0000 1111 15

OUT DX, AL

mor CX, roll.

MOY DX, 2004 H

MOV AL, 03H

OUT DX, AL

MOY DX, 2004H

NOV AL, OTH

OUT DXL, AL

DX, 2030H A L, 000111116

MON DX, 2004 H

MON AL OFH

OUT DX, AL

MOV DX, 2030 H

MO V AL, OOIIIII b

OUT DX, AL

x102 cx, 20th

MON DX, 2006H

MOV AL, OIH

OUT DX, AL

mor Dx, 2007+

MOY AL, OIH

OUT DX, AL

mov DX, 2031 H

MOV AL, 000000016

DUT DX, AL

mov CK, 20H

mor DX, 2008 h

MON AL, OIH

OUT DX, AL

mov Dx, 20031 H

MOV AL, 00000011b

OUT DX, AL

mor ex, 20H

MOV DX, 200XH MON AL, OFH OUT DY, AL MOV DX, 2031 mor AL, 000001116 OUT DX, BL mor ex, roH MION DX, 2007 H mov AL, 07H OUT DX, AL MYON DX, noogh MOV AL, 041 H OUT DX, AL mor Dx , 2031 H mo v AL, 001 11111 b OUT OX, AL paro~ ex, 20H. rarov DX, 200AH

MOV AL, OIHOUT DX, ALMOV DX, ALMOV DX, ALMOV DX, ALMOV AL, O3HOUT DX, AL

```
MOV DX, 700 AH
mor AL, OXFH
OUT DX, AL
100 DX, 2032 H
1MOY AL, $0000001 #
OUT DX, AL
MOV CX, 20H.
     PX, 2008 H
MON
     AL, 04H
MOY
   DX , AL
OUT
MOV DX, 200 C4
     AL, 08H
1810 V
OUT
     DX, AL
    DX , 200 D&1
MON
mor AL, 010 H
OUT
     DX, AL
      DX, 200 EH
      AL, OIH.
       DX AL
DUT
     DX, 20084
0
MOV
       AL, O7FH
        DX, AL
DUT
```

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DX, 2032 H prov AL, 000000 110 b mor TUO DX, AL MON CX, 20H. MOV Dx, 200 f H MOV AL, OXFH OUT DX, AL MOY DX, 2013 H MOV AL, OR OIH OUT DX , AL 0x, 2013 ~ 0ro~ Loron AL, OZFH DX, AL DUT MOV DX, 2010H AL,08H KLOV DX, AL OUT mov Dx, 2011 H MOV AL DOPH DX, PL 0 47 MON DX, 2011-4 MON AL, OSH

DX, BL

001

DX, 2014 H MOY MOV AL, OTEH OUT DX, AL DX, 2015 MOY mor BL, OlH OUT DX, AL DX, 2016 MOY AL, OIH MOV DX, AL OUT DX, 2017 mor MOV. AL, OIH. OUT DX, AL MOY DX, 2018 AL, 02 H MOY DX, AL DUT DX, 2018 Mor AL, OFEH ~0m DX, AL OUT DX, 2015 1210V AL, 09H MIOY DX, AL OUT DX, 2016 MON AL 100 H MOV DX, AL OUT

MOV DX, 201XH MOV AL, 09H OUT DX, AL MOV DX, 201A H mov AL, OIH OUT DX, AL MON DX, 201BH MOV AL OIH OUT DX, AL MOV DX, 201CH MOY AL, 017 DX, AL OUT mor Dx, 2010 4 MOV AL, OIA OUT DX, AL. MOV DX, 201 DH AL, 07 FH 07 FH OUT DX, AL MOY DX, 201 CH MOY AL, 041 H DUT DX, AL

DX, 201BH MOV MOV DO AL, 041 H OUT DX, AL MOV DX, 201 A 4 MOV AL, 021H OUT DX, AL MOY DX, 201 AH MO~ AL, 031 H OUT DX, AL RRT START END P DELAY. mor AX, O LOOP 1: JHC AX CMP AX,1 JME LOOPI PE T ase or ENDS START. END

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