Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No	: CSE3108
Course Title	: Microprocessors Sessional
Assignment No	: 01

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

Submitted By-

Group	: B_2
Name	: S. M. Tasnimul Hasan
Id	: 180204142
Section	: B

Question :

    1 S 4 T 2

Answer :

DSEG   SEGMENT 'DATA'

NUMBERS DB   00000110b, 01101101b, 01100110b,

                      01111000b, 01011011b

DSEG   ENDS

SSEG   SEGMENT STACK 'STACK'

            DW   100h   DUP (?)

SSEG   ENDS

CSEG   SEGMENT 'CODE'

START   PROC   FAR

        PUSH   DS

        MOV   AX, 0

        PUSH   AX

        MOV   AX, DSEG

        MOV   DS, AX

        MOV   ES, AX

```asm
        MOV  DX, 2030h    ; First Seven Segment Display

        MOV  SI, 0

        MOV  CX, 8

NEXT :

        MOV  AL, NUMBERS [SI]

        out  dx, al

        INC  SI

        INC  DX

        LOOP  NEXT

        RET

START  ENDP

CSEG   ENDS

        END   START
```