



Ahsanullah University of Science and Technology (AUST)
Department of Computer Science and Engineering

LAB REPORT

Course No : CSE3108
Course Title : Microprocessors Sessional
Assignment No : 01
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Submitted To : Ms. Tahsin Aziz & Ms. Tanjila Broti

Submitted By:

Group : B1
Name : Anik Hassan Nibir
ID : 190104054
Section : B

Q. Write an assembly code to display '7B3H2' in seven segment display.

Answer.

```
SSEG SEGMENT STACK 'STACK'
```

```
    DW 50 DUP(?)
```

```
SSEG ENDS
```

```
DSEG SEGMENT 'DATA'
```

```
CHARS DB 00000111b, 0111100b, 0100111b, 0110110b, 01011011b
```

```
DSEG ENDS
```

```
CSEG SEGMENT 'CODE'
```

```
MAIN PROC FAR
```

```
    PUSH DS
```

```
    MOV AX, 0
```

```
    PUSH AX
```

```
    MOV AX, DSEG
```

```
    MOV DS, AX
```

```
    MOV ES, AX
```

```
    MOV DX, 2030H
```

```
    XOR SI, SI
```

```
    MOV BX, 5
```

NEXT :

MOV AL, CHARS [SI]

OUT DX, AL

MOV CX, 01FFH

LO:

LOOP LO

INC SI

INC DX

DEC BX

CMP BX, 0

JG NEXT

RET

MAIN ENDP

CSEG ENDS

END MAIN