

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 By -

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Section : B

Question: Write an assembly code to display '551C9' in Seven Segment Display.

Answer:

DSEG SEGMENT 'DATA'

NUMBERS DB 011011016, 011011016, 000001106, 001110016,01101111

DSEG ENDS

S SEG SEGMENT STACK 'STACK'

DW 100h DUP(7)

S SEG ENDS

CSEG SEGMENT 'CODE'

START PROC FAR

; Store refuren detress to OS:

PUSH DS

MOV AX,O

PUSH AX

; Set Segment resister

MOV AX, DSEG

MOV DS, AX

MOV ES, AX

```
MOV DX, 2030h; First seven segment Display
MOV SI,O
MOV CX,5
```

NEXT:

MOV AL, NUMBERS [SI]

OW

OUT DX, AL

INC SI

INC DX

LOOP NEXT

; return to operating system:

RET

START ENDP

(SEG ENDS

END START