**Experiment no: 02**

**Experiment Title:** Write an Assembly code to show Capital Letters and Small Letters

**Objective:** The main purpose of this lab is to how show Capital Letters and Small Letters in Assembly Code.

**Theory:** First, we take 26-character values ​​to print these numbers, then we store them in the register. Then we take the ASCII value for the first letter. Then we use the loop, which after printing one letter at a time increases it and prints the next number. We will continue the loop until we get all the values ​​of 26 characters.

**Code:**

. MODEL SMALL

. STACK 100H

.DATA

MSG DB "Printing Capital Alphabets A to Z: $"

SMS DB "Printing Capital alphabets a to z: $"

. CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

MOV BX, @DATA

MOV DS, BX

MOV AH, 9

LEA DX, MSG

INT 21H

MOV CX, 26

MOV BL, 65

MOV AH, 2

CAPITAL:

MOV DL, BL

INT 21H

INC BL

LOOP CAPITAL

; NEW LINE PRINT

MOV AH, 2

MOV DL, 0DH

INT 21H

MOV DL, 0AH

INT 21H

MOV AX, @DATA

MOV DS, AX

MOV BX, @DATA

MOV DS, BX

MOV AH, 9

LEA DX, SMS

INT 21H

MOV CX, 26

MOV BL, 97

MOV AH, 2

SMALL:

MOV DL, BL

INT 21H

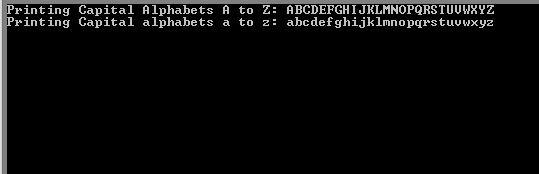
INC BL

LOOP SMALL

MAIN ENDP

END MAIN

**Input & Output:**

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