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:

```
Printing Capital Alphabets A to Z: ABCDEFGHIJKLMNOPQRSTUVWXYZ
Printing Capital alphabets a to z: abcdefghijklmnopqrstuvwxyz
```