COAL LAB MANUAL

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**Section:**

Section B

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**COAL Lab 4 HW**

**Case Conversion**

**Description**

In this lab Home Work we will learn about

* Detection of ascii value of particular character.
* Mapping ascii value of one character set onto another character set.
* Conditional and unconditional jumps.

**Lab Work**  
Write an assembly language program that takes an alphabet as input character. Program should detect the input character. Convert that character into other case.

**Program**

.MODEL SMALL

.data

STR1 DB 10, 13, 'Enter a Character: $'

STR2 DB 10, 13, 'Do You Want To Run Again? (type Y) $'

.code

mov AX, @data

mov DS, AX

START:

LEA DX, STR1

mov ah, 9

INT 21h

mov ah, 1

INT 21h

mov bl, al

CMP bl, 96

JLE UPPERTOLOWER

LOWERTOUPPER:

sub bl, 20h

JMP OUTPUT

UPPERTOLOWER:

add bl, 20h

OUTPUT:

mov ah, 2

mov dl, 0Ah

INT 21h

mov dl, 0Dh

INT 21h

mov dl, bl

INT 21h

LAST:

LEA DX, STR2

mov ah, 9

int 21h

mov ah,1

INT 21h

CMP al, 079h

JE START

.exit