SSN College of Engineering
Department of Computer Science and Engineering
III year - UCS1512 – Microprocessors Lab

Experiment No. 8: Case conversion

Input: letters through keyboard
Output: case converted letters on the fly

Hint:

Use dos interrupt 21H with AH=01 to read the letters with echo
Use AH=2 to display the letters to standard output device

Program

```
ASSUME CS:CODE,DS:data
data SEGMENT
COUNT equ 10h
data ends
CODE SEGMENT
START:MOV AX,data
       MOV DS,AX
       MOV CX,COUNT ; LOOP COUNTER
L1:MOV AH,1 ; INPUT CHARACTER,
       INT 21H ; AL = CHARACTER,  ASCII(hex) :A-Z=41-5A, a-z=61-7A
       CMP AL,60H
       JNC UPPER
       ADD AL,20H
       JMP SKIP
UPPER:SUB AL,20H ; CONVERT TO UPPER CASE
SKIP:MOV AH,2 ; CHARACTER OUTPUT FUNCTION
       MOV DL,AL ; CHARACTER MUST BE IN DL
       INT 21H ; DISPLAY THE CHARACTER
       LOOP L1 ; REPEAT LOOP
       MOV Ah,4CH
       INT 21H
CODE ENDS
end start
```