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DISPLAY A STRING

Aim:

To program and execute case conversions using 8086 microprocessor using DOSBOX.

Programs:

Algorithm:

- Initialise message in data segment.
- Use DOS function and offset of message to output the string.
- Terminate the program.

PROGRAM COMMENT

INITIALISE THE DATA SEGMENT DATA SEGMENT MESSAGE DB "message\$" DATA ENDS **CODE SEGMENT ASSUME** CS:CODE,DS:DATA **START:** MOV AX, DATA MOV DS,AX DOS FUNCTION #9 MOV AH,9 OFFSET OF THE STRING MOV DX,OFFSET MESSAGE INT 21H; **DISPLAY IT** TERMINATE THE PROGRAM MOV AH,4CH INT 21H **CODE ENDS END START**

Unassembled Code:

| –u | | | |
|------------|----------|-----|--------------|
| 076C:0000 | B86A07 | MOV | AX,076A |
| 076C:0003 | 8ED8 | MOV | DS,AX |
| .0760:0005 | B409 | MOV | AH,09 |
| 076C:0007 | BA0000 | MOV | DX,0000 |
| 076C:000A | CD21 | INT | 21 |
| 076C:000C | B44C | MOV | AH,4C |
| 076C:000E | CD21 | INT | 21 |
| 076C:0010 | F9 | STC | |
| 076C:0011 | B700 | MOV | BH,00 |
| 0760:0013 | D1E3 | SHL | BX,1 |
| 076C:0015 | 8B87AE16 | MOV | AX,[BX+16AE] |
| 076C:0019 | 3B46FE | CMP | AX,[BP-02] |
| 076C:001C | 7709 | JA | 0027 |
| 076C:001E | 8946FE | MOV | [BP-02],AX |
| _ | | | |

Snapshot of sample input and output:

INPUT:

OUTPUT:

Result:

The assembly level programs were written to perform the above specified system operations and the output was verified.