```
; Uppercase to lowercase
ASSUME CS:CODE, DS:DATA
DATA SEGMENT
   mesg1 DB OAH, ODH, "Enter string: $"
    str DB 50 DUP("$")
DATA ENDS
CODE SEGMENT
start:
    MOV AX, DATA
   MOV DS, AX
    LEA DX, mesg1
    MOV AH, 09H
    INT 21H
    LEA SI, str
    MOV CX, 0000H
    MOV AH,01H
    L1:
        INT 21H
        MOV [SI], AL
        INC SI
        INC CX
        CMP AL, 0DH
        JNZ L1
    DEC CX
    LEA SI,str
    MOV AH, 02H
    loop1:
        MOV DL, [SI]
        CMP DL, 61H
        JGE islower
        CMP DL, 20H
        JZ islower
        ADD DL, 20H
       islower:
            INT 21H
            INC SI
            LOOP loop1
    MOV AH, 4CH
    INT 21H
CODE ENDS
END START
```

```
; search for char in string
ASSUME CS:CODE, DS:DATA
DATA SEGMENT
   mesg1 DB 0AH,0DH,"Enter string: $"
   mesg2 DB 0AH,0DH,"Character found$"
   mesg3 DB 0AH,0DH,"Character not found$"
    mesg4 DB OAH,ODH,"Enter character to search: $"
    str DB 50 DUP("$")
DATA ENDS
CODE SEGMENT
start:
    MOV AX, DATA
   MOV DS, AX
    LEA DX, mesg1
    MOV AH,09H
    INT 21H
    LEA SI,str
    L1:
        MOV AH, 01H
        INT 21H
        MOV [SI], AL
        INC SI
        CMP AL, 0DH
        JNZ L1
    LEA DX, mesg4
    MOV AH,09H
    INT 21H
    MOV AH, 01H
    INT 21H
    LEA SI,str
    print
        CMP AL, [SI]
        JZ success
       INC SI
        LOOP print
```

```
fail:
    LEA DX,mesg3
    MOV AH,09H
    INT 21H
    JMP stop

success:
    LEA DX,mesg2
    MOV AH,09H
    INT 21H

stop:
    MOV AH,4CH
    INT 21H

CODE ENDS
END START
```