

Program 1:

; A simple program that display OK on the monitor screen using a procedure called DISP

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.MODEL TINY          ; select TINY model
.CODE               ; indicate start of CODE segment
.STARTUP           ; indicate start of program

        MOV BX, OFFSET DISP ; address DISP with BX
        MOV DL, 'O'         ; display 'O'
        CALL BX
        MOV DL, 'K'         ; display 'K'
        CALL BX

.EXIT                ; exit to DOS

DISP PROC NEAR
        MOV AH, 02          ; select function 02H
        INT 21H            ; execute DOS function
        RET                ; return from procedure
DISP ENDP
END                  ; end of program
```

Program 2:

; A program that uses a CALL lookup table to access one of three different procedures:
; ONE, TWO, or THREE.

```
.MODEL SMALL ; select SMALL model
.DATA ; indicate start of DATA segment
    TABLE DW ONE ; define lookup table
           DW TWO
           DW THREE

.CODE ; indicate start of CODE segment
ONE PROC NEAR
    MOV AH, 2 ; display a letter A
    MOV DL, 'A'
    INT 21H
    RET
ONE ENDP

TWO PROC NEAR
    MOV AH, 2 ; display letter B
    MOV DL, 'B'
    INT 21H
    RET
TWO ENDP

THREE PROC NEAR
    MOV AH, 2
    MOV DL, 'C'
    INT 21H
    RET
THREE ENDP

; Start of Main Program
.STARTUP
TOP:
    MOV AH, 01
    INT 21H
    SUB AL, 31H
    JB TOP
    CMP AL, 2
    JA TOP
    MOV AH, 00
    MOV BX, AX
    ADD BX, BX
    CALL TABLE [BX]

.EXIT
END
```