```
.MODEL SMALL
DISPLA MACRO MSG
    LEA DX, MSG
    MOV AH, 09H
    INT 21H
END M
; MACRO TO DISPLAY A CHARACTER.
DISPCHAR  MACRO
        MOV AH, 02H
        INT 21H
END M


.DATA
MSG1 DB 0DH, 0AH, "ENTER AN ALPHANUMERIC CHARACTER: $"
MSG2 DB 0DH, 0AH, "NOT ALPHANUMERIC :... $"


. CODE
START: MOV AX, @DATA
        MOV DS, AX
        DISPLAY MSG1
        MOV AH, 01H
        INT 21H
        CALL CHECK   ; CHECK FOR ALPHANUMERIC CHARACTER
        JC ERROR
        PUSH AX
        ; SET MODE AND CLEAR THE SCREEN
        ; ROW =25 AND COLUMN=80
        MOV AH, 00H
        MOV AL, 03H
        INT 10H
        ; MOVE CURSOR TO' THE MID POINT OF THE SCREEN
        MOV AH, 02H
```

```
MOV BH, 00H        ; PAGE NUMBER
MOV DH, 12D        ; ROW VALUE
MOV DL, 40D        ; COLUMN VALUE
INT 10H
POP AX             ; RESTORE THE CHARACTER
AAH
PUSH AX
MOV AL, AH
XOR AH, AH
AAH
ADD AX, 3030H
MOV DL, AH
PUSH AX
DISPCHAR
POP AX
MOV DL, AL
DISPCHAR
POP AX
ADD AL, 30H
MOV DL, AL
DISPCHAR
MOV AH, 07H
INT 21H
JMP FINAL
ERROR: DISPLAY MSG2
    JMP FINAL
CHECK PROC NEAR
    CMP AL, 30H
    JE FRET
    JC ERR
    CMP AL, 39H
    JE FRET
```

```
            JNC NEXT
            JC FRET
NEXT: CMP AL,41H
        JE FRET
        JC ERR
        CMP AL,5AH
        JE FRET
        JNC NEXT1
        JC FRET
NEXT1: CMP AL,61H
        JE FRET
        JC ERR
        CMP AL,7AH
        JE FRET
        JNC ERR
        JL FRET
ERR: STC
RET
FRET: STC
RET
CHECK ENDP
FINAL: MOV AH,4CH
        INT 21H
END START
```