```
        TITLE   'DEMO.ASM - HEATH HDOS ASSEMBLY LANGUAGE DEMO'
        XTEXT   HDOS
        ORG     USERFWA

        STL     'DOCUMENTATION'
***     DEMO.ASM - HEATH HDOS ASSEMBLY LANGUAGE.
*
*       DEMO IS A SHORT AND SIMPLE PROGRAM USED TO DEMONSTRATE THE HDOS
*       ASSEMBLER, AND THE HDOS OPERATING SYSTEM.
*
*       THIS PROGRAM SIMPLY PRINTS TWO CODED LINES ON THE
*       SYSTEM CONSOLE TERMINAL.


ENTRY   LXI     H,MESA          (HL) = ADDRESS OF 1ST MESSAGE
        SCALL   .PRINT          PRINT FIRST MESSAGE
        LXI     H,MESB          (HL) = ADDRESS OF 2ND MESSAGE
        SCALL   .PRINT          PRINT 2ND MESSAGE

*       SEND A BELL TO THE TERMINAL

        MVI     A,07Q           (A) = ASCII BELL
        SCALL   .SCOUT          RING TERMINAL'S BELL

*       RETURN CONTROL TO HDOS OPERATING SYSTEM

        XRA     A
        SCALL   .EXIT           EXIT TO OPERATING SYSTEM


*       MESSAGES FOR .PRINT SCALL'S

MESA    DB      12Q,'HI THERE, SPORTS FANS','!'+200Q
        LON     G               LIST THE BYTES OF THE NEXT MESSAGE
MESB    DB      12Q,'YOUR SYSTEM WORKS FINE','!'+200Q

        END     ENTRY           START EXECUTING AT 'ENTRY' LABEL
```