

```
.....
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,07H (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 120, 'HI THERE, SPORTS FANS', '!'+2000
LON B LIST THE BYTES OF THE NEXT MESSAGE
MESB DB 120, 'YOUR SYSTEM WORKS FINE', '!'+2000
.....
```

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