

```

1  include "emu8086.inc"
2  .model small
3  .stack 100h
4
5
6  .data
7
8
9  .code
10
11
12  main proc
13
14      mov ax,@data
15      mov ds,ax
16
17      ;initialization
18      mov ax,0
19
20      ;input al = AAh, output will be same
21
22      mov al,0AAh
23
24      mov bl,10h
25      div bl
26
27      cmp ah,al ;for comparing lower and higher nibble
28      jz same
29      jmp notSame
30
31
32      same:
33          CALL PTHIS
34          db 13, 10, 'SAME',0
35          jmp end
36
37
38      notSame:
39          CALL PTHIS
40          db 13, 10, 'NOT SAME',0
41
42
43      end:
44          DEFINE_PTHIS
45          hlt
46
47
48
49
50
51
52
53  endp main
54  end main

```