

# Step: 1

home &gt; aetooc &gt; Files &gt; ASM hello.asm

```
1
2 section .data
3     hello: db 'Hello world!',10      ; 'Hello world!' plus a linefeed character
4     helloLen: equ $-hello           ; Length of the 'Hello world!' string
5
6 section .text
7 global _start
8
9 _start:
10     mov eax,4                        ; The system call for write (sys_write)
11     mov ebx,1                        ; File descriptor 1 - standard output
12     mov ecx,hello                    ; Put the offset of hello in ecx
13     mov edx,helloLen                 ; helloLen is a constant
14     int 80h                          ; ??
15
16     mov eax,1
17     mov ebx,0
18     int 80h
```

**Muhammad Awais**  
**P20-0107**  
**BCS - 4A**



aetooc@neo: ~/Files



```
(anaconda3)aetooc@neo:~/Files$ nasm -f elf64 hello.asm  
(anaconda3)aetooc@neo:~/Files$  
(anaconda3)aetooc@neo:~/Files$  
(anaconda3)aetooc@neo:~/Files$  
(anaconda3)aetooc@neo:~/Files$ ld -s -o hello hello.o  
(anaconda3)aetooc@neo:~/Files$  
(anaconda3)aetooc@neo:~/Files$  
(anaconda3)aetooc@neo:~/Files$ ./hello  
Hello world!  
(anaconda3)aetooc@neo:~/Files$
```

Step: 2

Step: 3

Step: 4



aetooc@neo: ~/1-FAST-NUCES/Semester-IV/OS...



## Step: 5

Answer: int 80h is a Interrupt for linux to invoke the system call.█

-- INSERT --

4,67

All