

Operating Systems Assignment # 01

Step 1:

```
*hello.asm x
section .data
hello: db 'Hello world!',10
helloLen: equ $-hello
section .text
global _start
_start:
mov eax,4
mov ebx,1

mov ecx,hello
mov edx,helloLen
int 80h
mov eax,1
mov ebx,0
int 80h
```

Step 2, 3 & 4:

```
(base) hamza@hamza-Lenovo-ideapad-320-15ABR:~/Documents/Semester no.4/Operating Systems/Assignments/1$ nasm -f elf64 hello.asm
(base) hamza@hamza-Lenovo-ideapad-320-15ABR:~/Documents/Semester no.4/Operating Systems/Assignments/1$ ld -s -o hello hello.o
(base) hamza@hamza-Lenovo-ideapad-320-15ABR:~/Documents/Semester no.4/Operating Systems/Assignments/1$ ./hello
Hello world!
(base) hamza@hamza-Lenovo-ideapad-320-15ABR:~/Documents/Semester no.4/Operating Systems/Assignments/1$
```

Step 5:

In line 13th of code “int 80h” , the int is used for interrupt.
We break the execution of a program by interrupting it with this line of code.