

LESSON 19

```
lesson19.asm
%include 'functions.asm'

SECTION .data
command      db      '/bin/echo', 0h
arg1         db      'Hello World!', 0h
arguments    dd      command
             dd      arg1
             dd      0h
environment  dd      0h

SECTION .text
global _start

_start:

    mov     edx, environment
    mov     ecx, arguments
    mov     ebx, command
    mov     eax, 11
    int     80h

    call    quit |
```

```
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ nasm -f elf lesson19.asm
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ ld -m elf_i386 lesson19.o -o lesson19
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ ./lesson19
Hello World!
```

LESSON 20

```
%include 'functions.asm'

SECTION .data
childMsg      db      'This is the child process', 0h
parentMsg     db      'This is the parent process', 0h

SECTION .text
global _start

_start:

    mov     eax, 2
    int     80h

    cmp     eax, 0
    jz      child

parent:
    mov     eax, parentMsg
    call    sprintf
    call    quit

child:
    mov     eax, childMsg
    call    sprintf

    call    quit |
```

```
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ nasm -f elf lesson20.asm
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ ld -m elf_i386 lesson20.o -o lesson20
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ ./lesson20
This is the parent process
xenial@xenial-VirtualBox:~/Desktop/nasm-2.16.01$ This is the child process
```