

GOA COLLEGE OF ENGINEERING

FARMAGUDI, PONDA GOA

SOURCE CODE

1)

```
section .data
    hello db 'HELLO WORLD',4
    helloLen equ $-hello
```

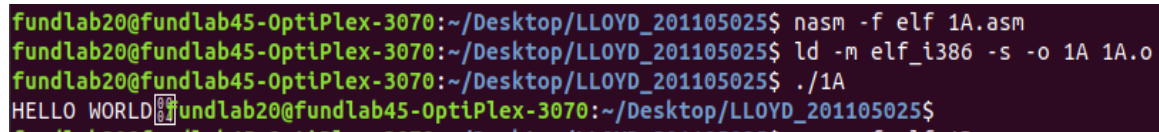
```
section .text

    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
```

OUTPUT



```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ nasm -f elf 1A.asm
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ld -m elf_i386 -s -o 1A 1A.o
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./1A
HELLO WORLD
```

2)

```
section .data
    star times 9 db '*'
```

```
section .text
    global _start
_start:
    mov eax, 4
    mov ebx, 1
    mov ecx, star
    mov edx, 9
    int 80h

    mov eax, 1
    mov ebx, 0
    int 80h
```

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OUTPUT

```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./1B
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ nasm -f elf 1B.asm
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ld -m elf_i386 -s -o 1B 1B.o
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./1B
*****fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$
```

3)

section .data

```
mssg1 db 'HELLO WORLD',10
mssg1Len equ $-mssg1
```

```
mssg2 db 'HELLO USER',10
mssg2Len equ $-mssg2
```

```
sys_exit equ 1
sys_write equ 4
stdin equ 0
stdout equ 1
```

section .text

```
global _start
```

```
_start:
    mov eax, sys_write
    mov ebx, stdout
    mov ecx, mssg1
    mov edx, mssg1Len
    int 80h
```

```
    mov eax, sys_write
    mov ebx, stdout
    mov ecx, mssg2
    mov edx, mssg2Len
    int 80h
```

```
    mov eax, sys_exit
    mov ebx, stdin
    int 80h
```

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OUTPUT

```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ nasm -f elf 1C.asm  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ld -m elf_i386 -s -o 1C 1C.o  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ./1C  
HELLO WORLD  
HELLO USER
```

4)

section .data

```
sys_exit equ 1  
sys_write equ 4  
stdout equ 0
```

```
name db 'GCE GOA',10  
nameL equ $-name
```

section .text

```
global _start  
_start:  
    mov eax, sys_write  
    mov ebx, stdout  
    mov ecx, name  
    mov edx, nameL  
    int 80h
```

```
mov[name], dword 'GEC '
```

```
mov eax, sys_write  
mov ebx, stdout  
mov ecx, name  
mov edx, nameL  
int 80h
```

```
mov eax, sys_exit  
mov ebx, stdout  
int 80h
```

OUTPUT

```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ nasm -f elf 1D.asm  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ld -m elf_i386 -s -o 1D 1D.o  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ./1D  
GCE GOA  
GEC GOA  
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$
```

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5)

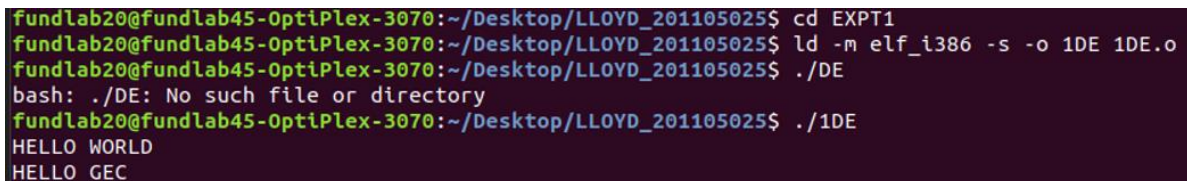
```
section .data
    st db 'HELLO WORLD',10
    stt db 'HELLO GEC',10
```

```
section .text
    global _start
    _start:
        mov eax, 4
        mov ebx, 1
        mov ecx, st
        mov edx, 12
        int 80h

        mov eax, 4
        mov ebx, 1
        mov ecx, stt
        mov edx, 10
        int 80h

        mov eax, 1
        mov ebx, 0
        int 80h
```

OUTPUT



```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ cd EXPT1
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ld -m elf_i386 -s -o 1DE 1DE.o
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./DE
bash: ./DE: No such file or directory
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./1DE
HELLO WORLD
HELLO GEC
```

6)

```
section .data
    sys_out equ 4 ;To output
    sys_in equ 3 ;To Input

    stdout equ 1 ;Stdout
    stdin equ 2 ;Stdins

    p1 db 'ENTER YOU NAME: '
    p1L equ $-p1

    p2 db 'ENTER THE NUMBER: '
    p2L equ $-p2
```

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```
p3 db 'YOUR NAME IS: '  
p3L equ $-p3
```

```
p4 db 'YOUR NUMBER IS: '  
p4L equ $-p4
```

```
section .bss  
    num resb 9  
  
    name resb 9  
section .text  
    global _start  
_start:  
    mov eax, sys_out  
    mov ebx, stdout  
    mov ecx, p1  
    mov edx, p1L  
    int 80h  
  
    mov eax, sys_in  
    mov ebx, stdin  
    mov ecx, name  
    mov edx, 9  
    int 80h  
  
    mov eax, sys_out  
    mov ebx, stdout  
    mov ecx, p2  
    mov edx, p2L  
    int 80h  
  
    mov eax, sys_in  
    mov ebx, stdin  
    mov ecx, num  
    mov edx, 9  
    int 80h  
  
    mov eax, sys_out  
    mov ebx, stdout  
    mov ecx, p3  
    mov edx, p3L  
    int 80h  
  
    mov eax, sys_out  
    mov ebx, stdout  
    mov ecx, name  
    mov edx, 9  
    int 80h  
  
    mov eax, sys_out  
    mov ebx, stdout  
    mov ecx, p4
```

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```
mov edx, p4L
int 80h

mov eax, sys_out
mov ebx, stdout
mov ecx, num
mov edx, 9
int 80h

mov eax, 1
mov ebx, 0
int 80h
```

OUTPUT

```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ nasm -f elf 1E.asm
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ld -m elf_i386 -s -o 1E 1E.o
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LLOYD_201105025$ ./1E
ENTER YOU NAME: LLOYD
ENTER THE NUMBER: 4
YOUR NAME IS: LLOYD
YOUR NUMBER IS: 4
```

7)

```
section .bss
    num1 resb 9
    num2 resb 9
section .data

    sys_out equ 4 ;To output
    sys_in equ 3 ;To Input

    stdout equ 1 ;Stdout
    stdin equ 2 ;Stdins

    p1 db 'ENTER THE FIRST NUMBER: '
    p1L equ $-p1

    p2 db 'ENTER THE SECOND NUMBER: '
    p2L equ $-p2

    p3 db 'THE NUMBER YOU ENTERED ARE: ',10
    p3L equ $-p3

section .text
    global _start
    _start:

    mov eax, sys_out
    mov ebx, stdout
```

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```
mov ecx, p1
mov edx, p1L
int 80h
```

```
mov eax, sys_in
mov ebx, stdin
mov ecx, num1
mov edx, 9
int 80h
```

```
mov eax, sys_out
mov ebx, stdout
mov ecx, p2
mov edx, p2L
int 80h
```

```
mov eax, sys_in
mov ebx, stdin
mov ecx, num2
mov edx, 9
int 80h
```

```
mov eax, sys_out
mov ebx, stdout
mov ecx, p3
mov edx, p3L
int 80h
```

```
mov eax, sys_out
mov ebx, stdout
mov ecx, num1
mov edx, 9
int 80h
```

```
mov eax, sys_out
mov ebx, stdout
mov ecx, num2
mov edx, 9
int 80h
```

```
mov eax, 1
mov ebx, 0
int 80h
```

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OUTPUT

```
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ nasm -f elf 1F.asm
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ld -m elf_i386 -s -o 1F 1F.o
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$ ./1F
ENTER THE FIRST NUMBER: 4
ENTER THE SECOND NUMBER: 20
THE NUMBER YOU ENTERED ARE:
4
20
fundlab20@fundlab45-OptiPlex-3070:~/Desktop/LL0YD_201105025$
```