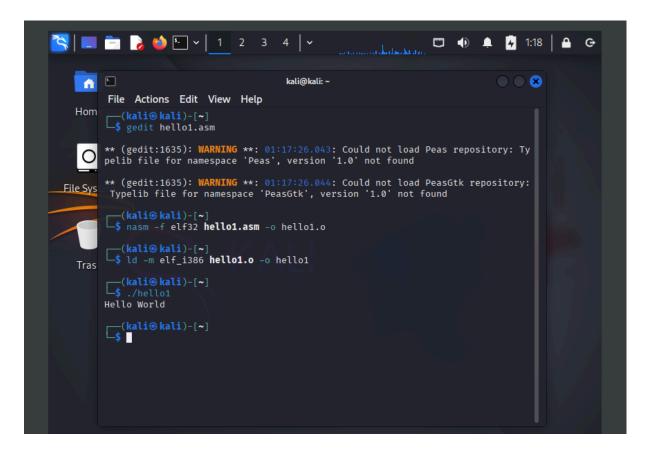
```
section .data
msg db 'Hello World',0xa
len equ $-msg

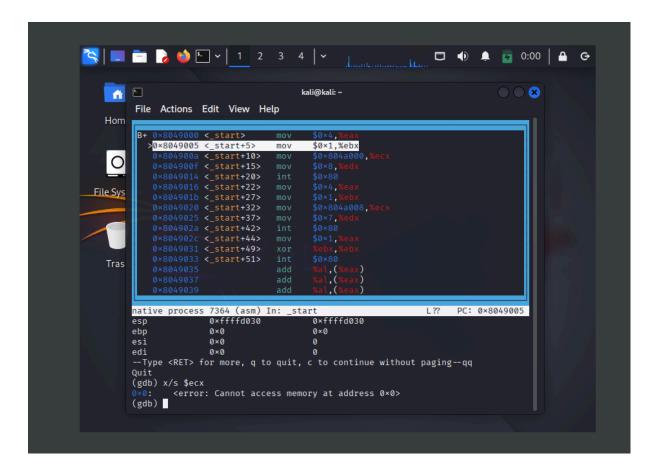
section .text
global _start

_start:
    mov eax,4
    mov ebx,1
    mov ecx,msg
    mov edx,len
    int 0x80
    mov eax,1
    xor ebx,ebx
    int 0x80
```



gdb ./hello

set disassembly-flavor intel break _start run layout asm stepi



; hello.asm - Prints first name and second name on different lines (32-bit NASM, Linux)

```
section .data
  firstName db "Atharva", 0x0A ; First name + newline
  firstLen equ $ - firstName
  secondName db "Gadgil", 0x0A ; Second name + newline
  secondLen equ $ - secondName
section .text
  global _start
start:
  ; Print first name
  mov eax, 4
                  ; sys_write
  mov ebx, 1
                  ; stdout
  mov ecx, firstName; message address
  mov edx, firstLen ; message length
  int 0x80
  ; Print second name
  mov eax, 4
  mov ebx, 1
  mov ecx, secondName
  mov edx, secondLen
```

int 0x80

; Exit program

mov eax, 1; sys_exit xor ebx, ebx; exit code 0

int 0x80

```
CPU usage: 2.1%
                                                   kali@kali: ~
                                                                                                        \bigcirc
    <u>F.</u>
     File Actions Edit View Help
** (gedit:3933): WARNING **: 23:52:45.922: Could not load Peas repository: Ty pelib file for namespace 'Peas', version '1.0' not found
    ** (gedit:3933): WARNING **: 23:52:45.923: Could not load PeasGtk repository: Typelib file for namespace 'PeasGtk', version '1.0' not found
   (kali⊗kali)-[~]

$ gedit hello.asm
    ** (gedit:4647): WARNING **: 23:54:12.992: Could not load Peas repository: Ty pelib file for namespace 'Peas', version '1.0' not found
    ** (gedit:4647): WARNING **: 23:54:12.992: Could not load PeasGtk repository:
     Typelib file for namespace 'PeasGtk', version '1.0' not found
as
     (kali⊗kali)-[~]
$ nasm -f elf32 hello.asm -o hello.o
    ____(kali⊛ kali)-[~]
$ ld -m elf_i386 hello.o -o hello
    Atharva
    Gadgil
       —(kali⊛kali)-[~]
```