

## **SUBTRACTION**

```
section .data
```

```
num1 dd 20
```

```
num2 dd 10
```

```
result dd 0
```

```
section .text
```

```
global _start
```

```
_start:
```

```
mov eax, [num1]
```

```
sub eax, [num2]
```

```
mov [result], eax
```

```
mov eax, 1
```

```
xor ebx, ebx
```

```
int 0x80
```

```
vboxuser@Ubuntu: ~  
There is NO WARRANTY, to the extent permitted by law.  
Type "show copying" and "show warranty" for details.  
This GDB was configured as "x86_64-linux-gnu".  
Type "show configuration" for configuration details.  
For bug reporting instructions, please see:  
<http://www.gnu.org/software/gdb/bugs/>.  
Find the GDB manual and other documentation resources online  
<http://www.gnu.org/software/gdb/documentation/>.  
  
For help, type "help".  
Type "apropos word" to search for commands related to "word".  
Reading symbols from ./sub...  
(No debugging symbols found in ./sub)  
(gdb) break _start  
Breakpoint 1 at 0x8049000  
(gdb) run  
Starting program: /home/vboxuser/sub  
  
Breakpoint 1, 0x08049000 in _start ()  
(gdb) (gdb) x/d &result  
Undefined command: ". Try "help".  
(gdb) 0x0804a02c <result>: -10  
Undefined command: "0x0804a02c". Try "help".  
(gdb)
```

## ADDITION

section .data

num1 dd 10

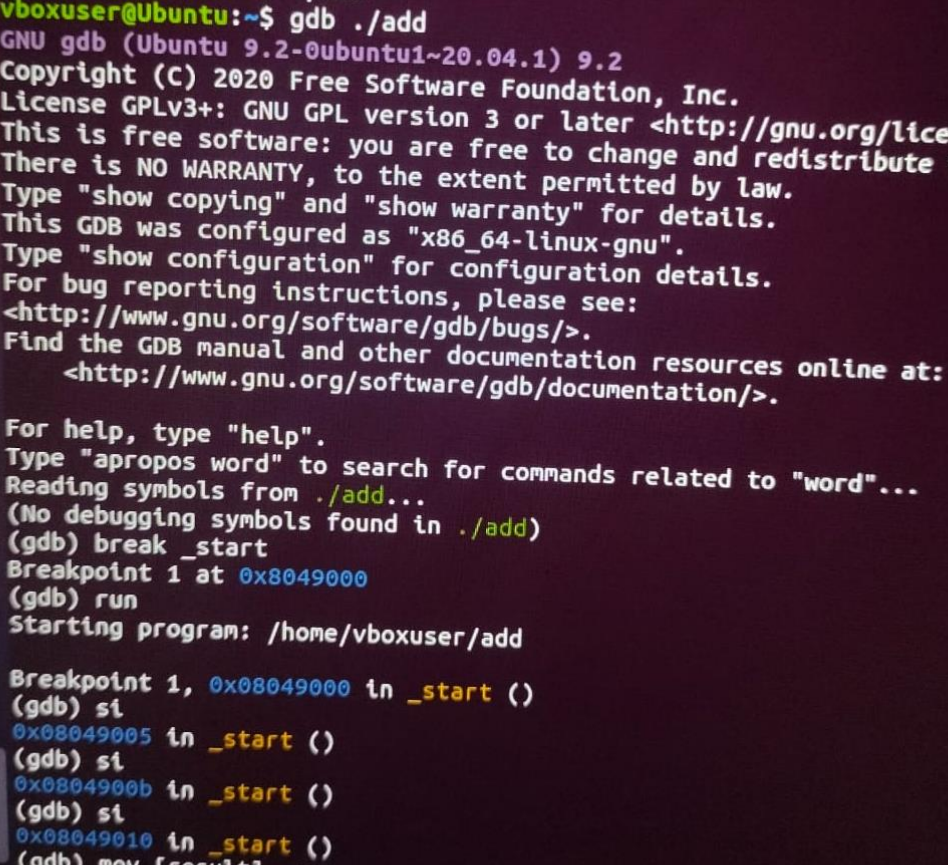
num2 dd 20

result dd 0

section .text

global \_start

```
int 0x80
```



```
vboxuser@Ubuntu:~$ nasm -f elf32 add.asm
vboxuser@Ubuntu:~$ ld -m elf_1386 add.o -o add
vboxuser@Ubuntu:~$ ./add
vboxuser@Ubuntu:~$ gdb ./add
GNU gdb (Ubuntu 9.2-0ubuntu1~20.04.1) 9.2
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<http://www.gnu.org/software/gdb/bugs/>.
Find the GDB manual and other documentation resources online at:
<http://www.gnu.org/software/gdb/documentation/>.

For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from ./add...
(No debugging symbols found in ./add)
(gdb) break _start
Breakpoint 1 at 0x8049000
(gdb) run
Starting program: /home/vboxuser/add

Breakpoint 1, 0x08049000 in _start ()
(gdb) si
0x08049005 in _start ()
(gdb) si
0x0804900b in _start ()
(gdb) si
0x08049010 in _start ()
(gdb) mov [result], eax
Undefined command: "mov". Try "help".
(gdb) x/d &result
0x804a008:      30
(gdb) |
```