

Addition of 2 numbers in asm

Name : Kevin Samuel Victor

Roll No. : 32

Code :

```
global _start
```

```
section .data
```

```
sum db 0
```

```
newline db 10
```

```
section .text
```

```
_start:
```

```
mov eax,8
```

```
mov ebx,1
```

```
add eax, ebx
```

```
add eax,48 ;ASCII representation
```

```
mov [sum],eax
```

```
int 80h
```

```
mov eax,4
```

```
mov ebx,1
```

mov ecx,sum

mov edx,1

int 80h

mov eax,4

mov ebx,1

mov ecx,newline

mov edx,1

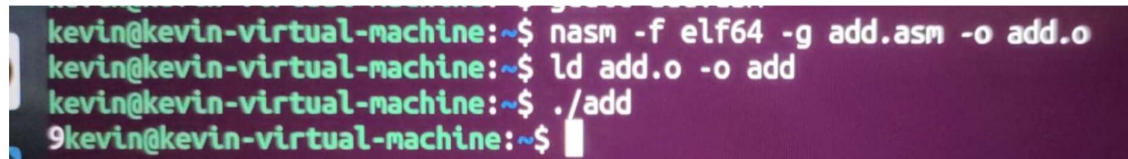
int 80h

mov eax,1

xor ebx,ebx

int 80h

Output :

A terminal window with a dark purple background and green text. It shows the compilation of an assembly file named 'add.asm' into 'add.o' using 'nasm -f elf64 -g', then linking 'add.o' into an executable named 'add' using 'ld', and finally running the executable with './add'. The prompt '9' is visible before the final shell prompt.

```
kevin@kevin-virtual-machine:~$ nasm -f elf64 -g add.asm -o add.o
kevin@kevin-virtual-machine:~$ ld add.o -o add
kevin@kevin-virtual-machine:~$ ./add
9kevin@kevin-virtual-machine:~$
```