Task 1: Installing NASM

You may choose other methods. Whatever works...

Task 2: Verify Installation

1. Copy the code given on the next page to a file titled `hello.asm`
2. Run the following command and make sure the program runs perfectly. It should print `"a=5, b=2 c=7"`. You may change the values of `a` and `b` in the source code.

   ```
   nasm -f elf64 hello.asm && gcc -o hello hello.o && ./hello
   ```

3. End of lab for today.

```
extern  printf

SECTION .data

a:      dq      5
b:      dq      2
c:      dq      0
fmt:    db "a=%ld, b=%ld c=%ld", 10, 0

SECTION .text

global main
main:
        push    rbp

        mov     rax,[a]
        mov     rbx,[b]
        add     rax,rbx
        mov     [c],rax
        mov     rdi,fmt
        mov     rsi,[a]
        mov     rdx,[b]
        mov     rcx,[c]
        mov     rax,0
        call    printf

        pop     rbp

        mov     rax,0
        ret
```