

```
; Exercise 4 - Working with Memory
; Purpose: Store a value in memory and load it back.
; #belleswhoshell.ca
```

```
section .data
val dd 1234
```

```
section .text
global _start
```

```
_start:
    ; Get address of val (PC-relative) and load it
    lea rbx, [rel val]
    mov eax, [rbx]      ; load dword at val into eax
    add eax, 1          ; modify value (increment)
    mov [rbx], eax      ; write back

    ; exit
    mov eax, 60
    xor edi, edi
    syscall
```