Assignment 3  
Write 64-bit ALP to “Hello World” in NASM

section .data

msg db 'Hello, World!', 0x0A ; Define the message and a newline character

len equ $ - msg ; Calculate the length of the message

section .text

global \_start

\_start:

; Write the message to stdout

mov rax, 1 ; System call number for sys\_write

mov rdi, 1 ; File descriptor (1 for stdout)

mov rsi, msg ; Address of the message

mov rdx, len ; Length of the message

syscall ; Make the system call

; Exit the program

mov rax, 60 ; System call number for sys\_exit

xor rdi, rdi ; Exit code 0

syscall ; Make the system call