1. Using the left snippet of mitscript, generate x86 assembly code to the right. Assume the caller used %rdi to pass the argument’s value to the function, %rax for the return value, %rsp for the stack pointer and %rbp for the base pointer.

fun(x) {
    y = x + 7;
    return y * 2;
}

_function1:
    push %rbp
    mov %rsp, %rbp
    sub $8, %rsp

    mov $7, %rax
    add %rdi, %rax
    mov %rax, -8(%rbp)

    mov -8(%rbp), %rax
    mul $2, %rax

    mov %rbp, %rsp
    pop %rbp
    ret