1.  Generate x86-64 assembly code for the MITScript function below. 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. You may also assume that all values (including arguments, local variables, and return values) are unboxed integers.

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