Notes: The purpose of this example is to show a complete MAL program. The program doesn’t do very much. In particular, no I/O instructions are used.

#Program to compute and store the average of three integers.

.data
    avg: .word 0 #Will store the average.
    i1: .word 20 #First integer.
    i2: .word 13 #Second integer.
    i3: .word 82 #Third integer.

.text
    .globl main
    main: lw $15, i1 #$15 contains 20.
    lw $16, i2 #$16 contains 13.
    add $15, $15, $16 #$15 contains 33.
    lw $16, i3 #$16 contains 82.
    add $15, $15, $16 #$15 contains the sum (115).
    li $16, 3 #$16 contains 3.
    div $15, $15, $16 #$15 contains the average (38).
    sw $15, avg #Store the average.

# Stop the program.
    li $v0, 10 #exit command.
    syscall