CSCI 200, W24, Lab 10 Solution

14.13. Write a sequence of assembly-language instructions that multiplies the contents of

memory location 10 by four. For example, if the number 10 were stored in memory

location 10, executing your instructions would cause the simulator to store 40 there.

Note: although the ALU Operation knob does not provide a multiplication setting, a

number can be multiplied via repeated additions (e.g., 10\* 4 = 10+10+10+10).

LOAD R0 10

ADD R0 R0 R0

ADD R0 R0 R0

STORE 10 R0

HALT