

#sample example 'add two numbers'

.text # text section

.globl main # call main by SPIM

main: la \$t0, value # load address 'value' into \$t0

lw \$t1, 0(\$t0) # load word 0(value) into \$t1

lw \$t2, 4(\$t0) # load word 4(value) into \$t2

add \$t3, \$t1, \$t2 # add two numbers into \$t3

sw \$t3, 8(\$t0) # store word \$t3 into 8(\$t0)

li \$v0, 10

syscall

.data # data section

value: .word 10, 20, 0 # data for addition