# example to sum the four bytes stored at the second word
# in the data segment and store the result at the location
# marked by label L2

.data
L1: .word 0x22334455, 0xaabbccdd, 0xff
L2: .space 4
.text
.globl main
main:  la $s0, L1
       addi $s0, $s0, 4       # $s0 contains the starting address of
       la $s1, L2             # $s1 contains the starting address of
       lb $s3, 0($s0)         # the 2nd word
       lb $s4, 1($s0)
       lb $s5, 2($s0)
       lb $s6, 3($s0)
       add $s3, $s3, $s4
       add $s3, $s3, $s5
       add $s3, $s3, $s6      # Addition complete, result in $s3
       sw $s3, 0($s1)         # Store at location L2

exit:   li $v0, 10             #exit program
       syscall