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# Title: Project 1 Part I
                                    Filename: Project 1 Part I.s
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# Description: This program will take a number of integers, add
             them up, and display the sum.
# Input: A series of integers
# Output: The sum of the integers
.data
inputMsg:
           .asciiz
                      "Enter an integer: "
                      "The total sum is "
outputMsq: .asciiz
.text
.globl main
main:
                                     #main program entry
                                     #initialize sum to 0
       xor
              $s0, $s0, $s0
                                     #prepare to print string
loop:
       li.
              $v0, 4
       la
                                     #choose string inputMsg
              $a0, inputMsg
       syscall
                                     #print inputMsg
       li.
                                     #prepare to read input number
              $v0, 5
       syscall
                                     #read input number
       add
              $s0, $s0, $v0
                                     #add the input number to sum
                                     #if (input!=0) continue loop
       bne
              $v0, $zero, loop
       1i
              $v0, 4
                                     #prepare to print string
              $a0, outputMsg
                                     #choose string outputMsg
       la
       <u>syscall</u>
                                     #print outputMsg
       li.
              $v0, 1
                                     #prepare to print sum
       addi
              $a0, $s0, 0
                                     #set output to sum
       syscall
                                     #print sum
       li.
              $v0, 10
                                     #prepare to exit program
       syscall
                                     #exit program
```