COMP.2030 Homework 1 Due 9/18 (Fri) 11:59 PM

Write an MIPS program for the following:

Declare in data memory an array A of three integers with initial values of 0’s.

The flow of the main function is as follows.

* Read an integer from the keyboard and save it in memory variable x.
* Read an integer from the keyboard and save it in memory variable y.
* Retrieve the value of x into register $t8.
* Retrieve the value of y into register $t9.
* call a function sum(), which adds registers $t8 and $t9, and returns the sum in register $a0.
* Print a message about the sum, and print the value of the sum.

**What to submit:**

* MIPS Source code for the assignment, including sufficient comments.
* Comments are critically important, and comments will be graded.
* Each function has to be preceded by comments including the name of the function, arguments and their registers, and how the return value is passed.
* Each line of MIPS instruction is typically commented on the right in a short C-like statement, so that comments on the right provide enough info on the flow of the function

**Late submission:**

* Late submissions are penalized according to the policy in the syllabus.