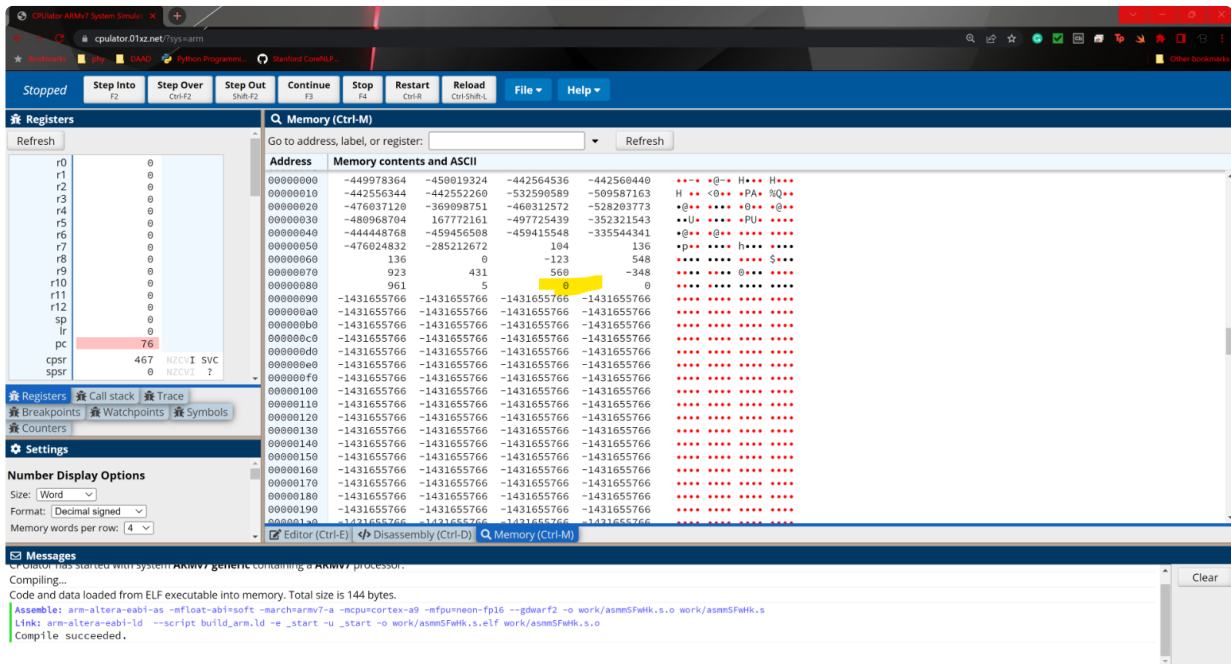


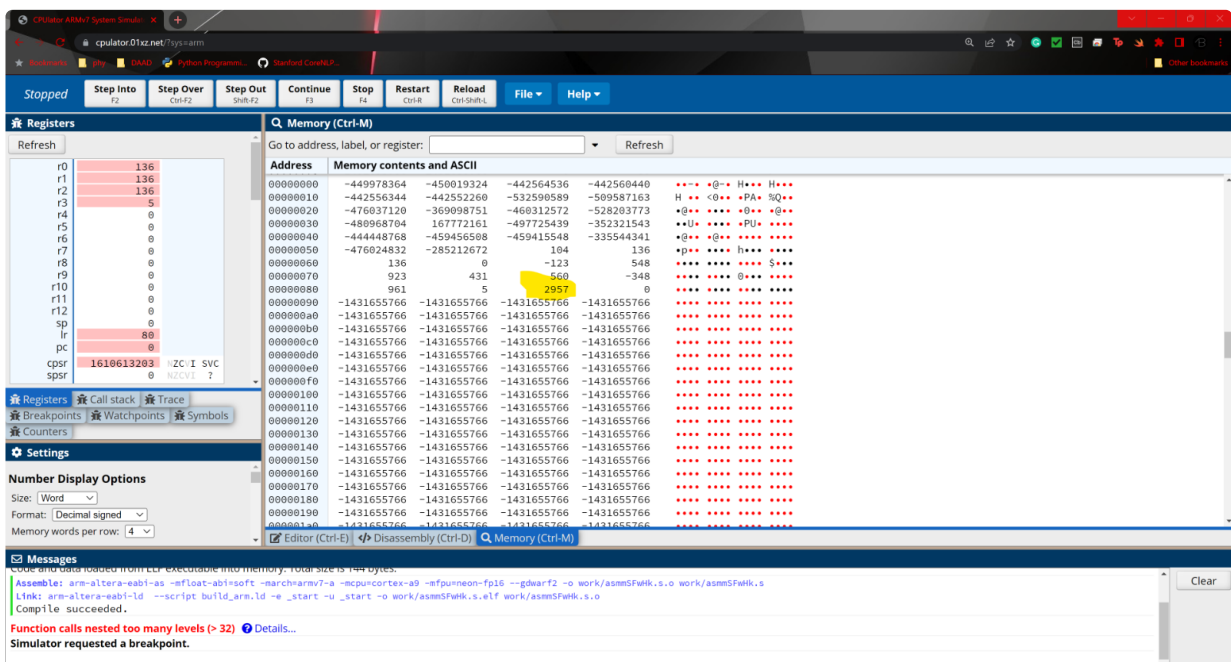
Lab 6 report ARM

The `arrsumsoln.s` computes the sum of all the numbers in an array of integers. The main function invokes the subroutine, which uses a loop to add up all the elements of the array and returns the result to the main function. The main function then displays a message saying "The sum of the array is: " followed by the value of the sum. The program has been improved by calculating the number of elements in the array and by making the loop in the subroutine more efficient.

array sum before:



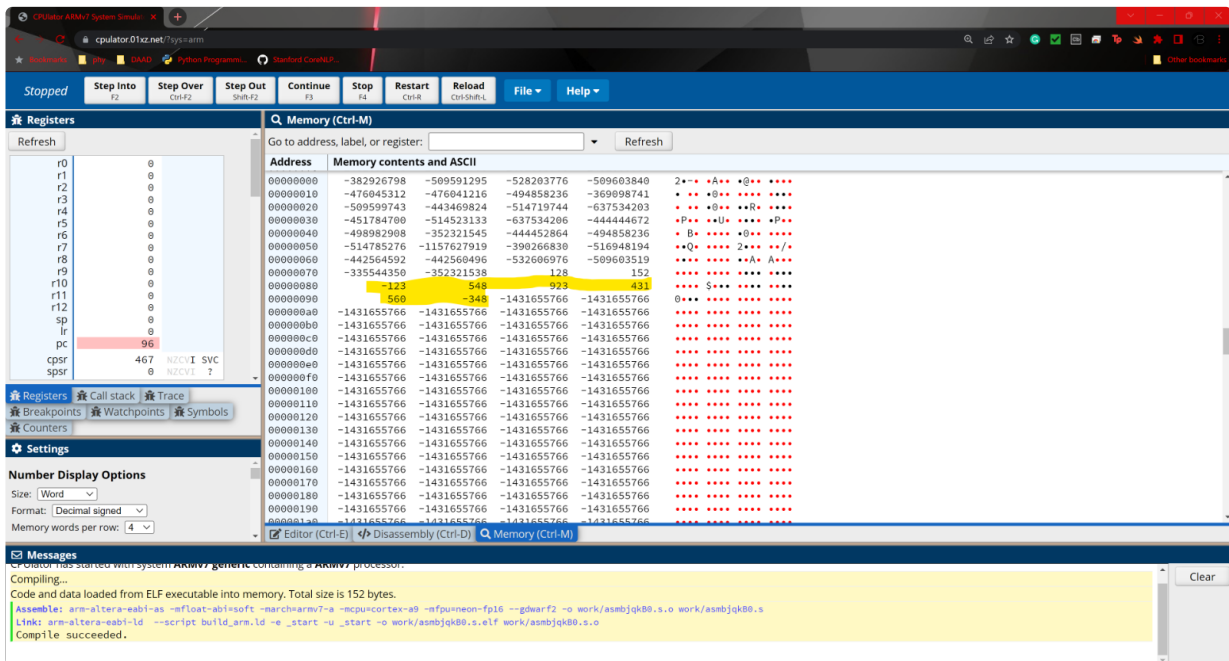
After:



isort.s:

isort.s is an implementation of the Insertion Sort algorithm. The sorting algorithm sorts the values in the array by repeatedly comparing the current value with the previous values and moving the larger values one step to the right until it finds the correct position for the current value. The print subroutine outputs each value in the array, separated by spaces. The program starts by prints the initial array. It then calls the sorting function, which rearranges the values in the array. The program finishes by printing the sorted array along with the necessary labels.

Before:



After:

