

## Lab 3-2 Report

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### Listing of Assembly Code:

- 94 lines of assembly code

### Summary of Project Implementation:

In this project I created a program that asks the user for 3 integers, and then displays the sum of the largest two integers. The program first prompts the user 3 times for 3 different integers, and then stores those integers in registers. It then runs a series of checks to figure out which two integers are the greatest, and then adds them together. At the end, it displays the sum of those two largest integers to the console.

### Results:

<div><div>Mars Messages</div><div>Run I/O</div><div>Enter first integer: 6 Enter second integer: 4 Enter third integer: 5 The sum of the largest two integers is: 11 -- program is finished running (dropped off bottom) --</div><div>Clear</div></div>	<div><div>Mars Messages</div><div>Run I/O</div><div>Enter first integer: 4 Enter second integer: 6 Enter third integer: 5 The sum of the largest two integers is: 11 -- program is finished running (dropped off bottom) --</div><div>Clear</div></div>
<div><div>Mars Messages</div><div>Run I/O</div><div>Enter first integer: 6 Enter second integer: 5 Enter third integer: 4 The sum of the largest two integers is: 11 -- program is finished running (dropped off bottom) --</div><div>Clear</div></div>	<div><div>Mars Messages</div><div>Run I/O</div><div>Enter first integer: 4 Enter second integer: 5 Enter third integer: 6 The sum of the largest two integers is: 11 -- program is finished running (dropped off bottom) --</div><div>Clear</div></div>

### Conclusion:

One lesson I learned when completing this lab is that it is important to understand the logic of the assignment before you start to code. I learned this lesson because I attempted to jump right into the assignment thinking I understood the logic behind what was asked, but I found that my logic was wrong and had to start from the beginning. The biggest problem I faced while completing this lab was putting all the if statements in the right place. This was hard because the logic I

came up with required many if statements, and I had to make sure they were all in the right order and jumped to the right places which was challenging for me.