CSCE 2610: Assembly Language and Computer Organization
Fall 2018

Programming Assignment 3
Due: December 5 (5pm), 2018

In our lab assignment 2, we have used functions to implement three functions called find_sum, find_largest and find_smallest to find desired values. The purpose of this lab is to practice using stacks to save parameters for nested functions.

In this lab assignment, you are asked to implement a function called find_values() that wraps three functions inside: find_smallest, find_largest, find_sum.

The pseudo code is:

```
find_values(){
        find_smallest();
        find_largest();
        find_sum();
}
```

The main() function calls the find_values() function and find_values() function calls the three other functions.

Test input: n= 5; the five positive integers are: 31, 32, 33, 34, 35.

Program Output: Store sum in register X5, largest and smallest values in X6, X7 respectively. You don't need to save the index for smallest and largest values.

A main program snap shot is also provided as a reference.

Submit: A file containing your ARMv8 code, a read me file (if needed), a snapshot of memory showing the values in the array before your program starts execution and a snapshot of memory showing the values in the array after the program completes execution.