Southern New Hampshire University

CS 405 Secure Coding

Module 1– Overflow

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RESULTS:

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

The approach here was straightforward. In add\_number() function there were three variables created result containing the start value. The maxNumericLimit containing the maximum value of the count then erroSignal which contains the min() value of the count. The concept here was to iterate through the for as long as ‘i’ is less than the value of the steps variable while also checking the limit of the upper limit. If the max value minus increment value are less than the value of the results the errorSignal value is return. If not, the results are incremented by adding one then returned.

Next was the subtract\_numbers() function. This was just the opposite of how the previous functions was built. For this function there were also three variables created. The variable result still contains the start value. This time, errorSignal variable holds the max() value of the count. There is a minNumericLimit variable initiated to 0 hard code the lower limit. The same iterations occur except this time the count is going down from the start value. The if statement controls the errorSignal here as well.