Southern New Hampshire University

CS 405 Secure Coding

Module 2 -- OverFlow

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RESULTS:

A picture containing text

Description automatically generated

In the buffer overflow example, the understood objective here is to deal with the overflow caused by user entered input that exceeds the maximum length of the array. Once this issue was dealt with, the user input would be copied to the account\_number variable.

The approach here was to first check to see if there was any user input in the user\_input variable. I decided to do this check continually with a while look just in case there was too much input and the user needed to re-enter the data. In the while loop, another condition is checked. Here is an if statement which checks the lower and upper limits of the array user\_input. If within the bounds of the array, the user data is take through a for loop to copy each character from the input into the string variable st. Once iteration is completed the variable st prints the value to console.

On the other hand, if the conditions of the if loop are exceeded an out of range exception is thrown. Once past the exception, the idea was to clear the existing value in the variable user\_input then, allow the user to re-enter another value.