Module 2 Critical Thinking Assignment

Programming III

CSC450-1 Fall 2025 Session C

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**String Concatenate CTA2:**

//============================================================================

// Name : String Concatenate.cpp

// Author : Grant Brosovich

// Version : 1.1

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// Description : Concatenating Strings from user input

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\* Wanted to include error handling for integr-type inputs but found out that C++ handles every single input as a string by default

\* To get an integer input it must be explicitly asked for or translated from string to integer.

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**#include** <iostream>

**#include** <string>

**using** **namespace** std;

//This is the function that will handle input and output based on the number of instances (3). Void functions don’t require a return but am using return to end the if statement with nothing produced when the run number is exceeded.

**void** **ConcatInput**( **int** count) {

//only three instances of concatenating the string.

//A more developed program might ask user for how many runs to do instead of hard-coding.

**if** (count > 3) {

**return**;

}

//Using getline() to handle any white spaces from input

string string1, string2;

cout << "Please enter the first string to concatenate:" << **endl**;

**getline**(cin, string1);

cout << "PLease enter the second string to concatenate with the first: " << **endl**;

**getline**(cin, string2);

cout << "Concatenated string: " << string1 + " " + string2 << **endl**;

//Recursion instead of while loop

ConcatInput(count + 1);

}

**int** **main**() {

ConcatInput(1);

**return** 0;

}

**Pseudocode:**

Start -> String Concatenate

-inclusions and namespaces defined

-Initialize ConcatInput() with required parameter “count”

1) End function if count exceeds 3

2) Declare local variables

string1, string2

3) Display input prompts

4) Assign inputs to declared variables

5) Concatenate variables

6) Display concatenated result

6) Increment count variable

7) Return to step 1

-Call ConcateInput with starting number

End -> String Concatenate program

A screenshot of a computer program

AI-generated content may be incorrect.

Simple string concatenation with recursion using C++ in Eclipse IDE. Built and ran as C++ application successfully.

**Public Github Repository link:**

https://github.com/GrantBros/CSC450