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 : 1.2

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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.

\*/

**#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** **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);

string stringres = string1 + " ";

stringres.append(string2);

cout << "Concatenated string: " << stringres << **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 (append) variables with space separating them

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 Image:**

A screenshot of a computer

AI-generated content may be incorrect.