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// COSC 1437 Program 5

#include <iostream>

using namespace std;

// Function template for calculating the total

template<typename T>

T calculateTotal(int numValues) {

T sum = 0;

T value;

for (int i = 0; i < numValues; i++) {

cout << "Enter a value: ";

cin >> value;

sum += value;

}

return sum;

}

int main() {

// Test the calculateTotal function template with integer and floating-point numbers

// Test with integers

int numIntegers;

cout << "Enter the number of integers you wish to total: ";

cin >> numIntegers;

int intTotal = calculateTotal<int>(numIntegers);

cout << "Total of integers: " << intTotal << endl << endl;

// Test with floating-point numbers

int numFloats;

cout << "Enter the number of floats you wish to total: ";

cin >> numFloats;

float floatTotal = calculateTotal<float>(numFloats);

cout << "Total of floats: " << floatTotal << endl;

return 0;

}

