C++ Basics Activity 2C

## Activity 2C C++ Basics

CSI-140 Introduction to Programming

Instructor: Dr. Vikas Thammanna Gowda Semester: Fall 2025

Follow these steps to deepen your understanding of variables, data types, and operators. You'll work with the provided order\_calculator.cpp starter code and answer each question by editing, running, observing, and documenting the results.

## Set up your environment

- Open your favorite IDE.
- Create a new project named Activity2B.
- Copy in the starter code from order\_calculator.cpp.
- Run the base code as is to ensure it works.

Q1. Record the output as it is here

• Verify that it prints the subtotal, tax, shipping, total cost, and whether the order is within your budget.

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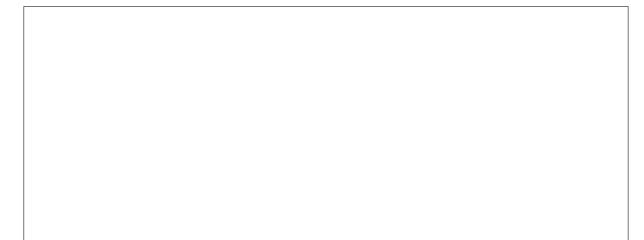
## Q2. Answer the following questions:

1. What is the data type of the variable quantity? (3 Points)			

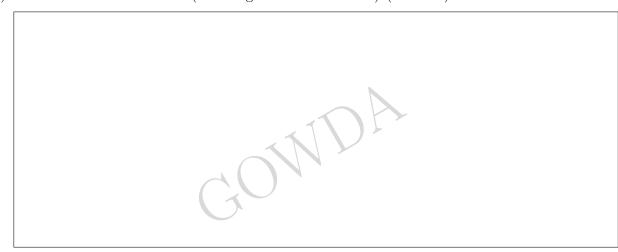
2.	What is the data type of the variable <b>subtotal</b> ? (3 Points)		
3.	What is the data type of the variable within_budget? (3 Points)		
4.	Name the operator used in line 15. (2 Points)		
5.	Name the operators used in line 19. (4 Points)		
1. If	Q3. Thinker and Tinker  1. If the store adds a \$2.00 handling fee after tax:  (a) Explain how would you modify the code to include this new fee.		
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(b) Give the modified code block below. (Do not give the entire code.) (c) Where would you place this new line in the code? (d) What would the new total cost be?

- 2. If you want to buy 5 books instead of 3:
  - (a) Explain how would you modify the code to include the above change (15 Points)



(b) Give the code block below. (Do not give the entire code.) (5 Points)



(c) What would the new total cost be? (5 Points)

