

# C++ Practical Example: Plant Growth Modeling (Without Code)

## Introduction

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In this practical example, we will model plant growth based on basic parameters such as sunlight, water, and nutrient availability.

The goal is to create a simple model that calculates plant growth over time based on these inputs.

## Model Description

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We will use a simplified equation for plant growth:

$$\text{Growth Rate} = (\text{Sunlight} * \text{Water} * \text{Nutrients}) / 100$$

For each day, we will update the growth based on the inputs, allowing us to simulate growth over time.

## Explanation

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The model requires the user to input sunlight, water, and nutrients values for the plant. These inputs will affect the daily growth

calculation. A function can be used to calculate the daily growth based on the given inputs, and the growth will be accumulated over time.

The model simulates plant growth over 10 days and outputs the growth per day as well as the total accumulated growth at the end.