

C14 - Lab: Multiple Inheritance & Diamond Problem

Objective

Understand and implement **multiple inheritance** in C++, specifically addressing the **diamond problem** using **virtual inheritance**.

Instructions

1. Implement the following classes:
 - Person: Base class with introduce().
 - Teacher and Student: Inherit from Person using **virtual inheritance**.
 - TeachingAssistant: Inherits from both Teacher and Student.
2. Observe how **virtual inheritance** prevents duplicate Person instances and ambiguity in method resolution.

Class Diagram

