

Tasks: Lab 09

Task 1:

Declare a class “Fruits” with any two data Members and two Member functions. Derive 2 class Mango and Orange from this Fruits class with one data Member and Member function. Create two Pointer objects of Fruits class and convert one to Mango Class Pointer Object and One to Orange Class Pointer Object through explicit Cast.

Task 2:

Write a class “Parent” with data members name,age,dob and one “GrandParent” class with data members first_name, address. Make one pointer type of each class. And cast the pointer type of Parent into GrandParent.

Task 3:

Write a C++ program which contain **Base Class** and **Derived Class (Cylinder)**. Base Class has two data members Radius, Height and a member function **CalculateArea(h, r)**. Derived class override the function **CalculateArea(h, r)** and print the output using the Base class pointer and Derived class object. The output must be printed through overridden function in derived class.

Note: In this program, You must print your name as a message in the overridden function too.

Task 4:

Write a C++ program which has **Abstract Base Class (Students)** containing Pure Virtual function **ShowInfo()** and data members name, reg-no and home-address. **Derived Class** show these info using the **ShowInfo()** function.