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/*This programme shows an example of derving class "Cube" from class "Box" */
#include<iostream>

using namespace std;

class Box {

protected: // To grant access to sub classes
        double length, height, width;

public:

        Box(double L, double H, double W) : length(L), height(H), width(W) {};

        double boxVolume() { return length * height * width; }
};

//Sub-class definition
class Cube : public Box { // Means public and protected members are the same in the sub class as
in super class

public:
        Cube(double s) : Box(s, s, s)   // The constructor of the sub class has to refer to the
constructor of the super class
        {               length = s, height = s; width = s;
     }
};


void main() {

        Cube x(5);

        cout << "The volume of the cube is " << x.boxVolume() << endl;

        system("pause");
};
```