

Philip Pesic

Week 4

September 11 2022

Week 4 Prog 6

All dimensions must be greater than zero, before the area or volume can be calculate... the calc functions should cout an error message is they are not.

Test the box with the following driver code:

```
// main.cpp
// Week 4 Prog 6
// Created by Pippo Pesic on 9/11/22.
#include <iostream>
using namespace std;
class box {
  int width, height, depth;
public:
  int getWidth(void) {
    return width;
  void setWidth(int inWidth) {
    width = inWidth;
  int getHeight(void) {
    return height;
  void setHeight(int inHeight) {
    height = inHeight;
  int getDepth(void) {
    return depth;
  void setDepth(int inDepth) {
    depth = inDepth;
  int calcArea() {
    int area = (( height * width ) * 4) + ( ( depth * width ) * 2);
    return area;
  int calcVolume() {
    int volume = height * width * depth;
    return volume;
int main() {
```

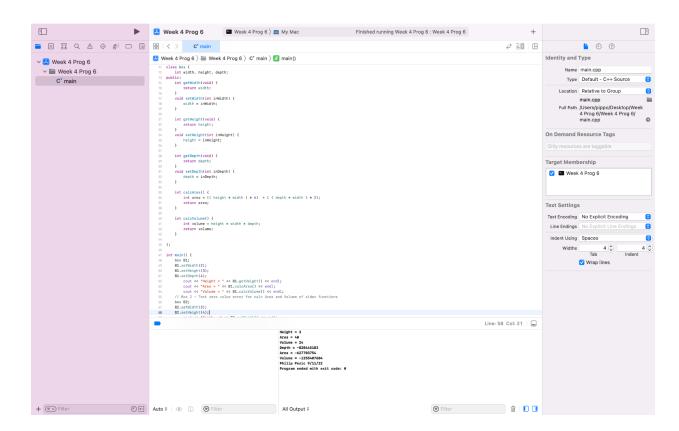
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```
box B1;
B1.setWidth(2);
B1.setHeight(3);
B1.setDepth(4);
cout << "Height = " << B1.getHeight() << endl;
cout << "Area = " << B1.calcArea() << endl;
cout << "Volume = " << B1.calcVolume() << endl;
// Box 2 - Test zero value error for calc Area and Volume of sides functions box B2;
B2.setWidth(3);
B2.setHeight(4);
cout << "Depth = " << B2.getDepth() << endl;
cout << "Area = " << B2.calcArea() << endl;
cout << "Volume = " << B2.calcVolume() << endl;
cout << "Philip Pesic 9/11/22" << endl;
return 0;
```



I learned: How to write classes with many intersecting properties