

Philip Pesic

Week 5

September 18 2022

Week 5 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 5 Prog 6
// Created by Pippo Pesic on 9/14/22.
#include <iostream>
#include "p6.h"
using namespace std;
int main() {
  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 9/18/22" << endl;
  return 0;
```

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Week 5 Prog 6
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```

I practiced writing and importing .h files into a program

```
-height: int
-width: int
-depth: int

+setHeight (inHeight: int) return inHeight = height
+getHeight (height: int) return void
+setDepth (inDepth: int) return inDepth = depth
+getDepth (depth: int) return void
+setWidth (inWidth: int) return inWidth = width
+getWidth (width: int) return void
+calcArea (area: int) return (( height * width ) * 4) + ( ( depth * width ) * 2)
+calcVolume (volume: int) return height*width*depth
```

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