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// Box Demonstration
// Illustrates a GUI and an Application Object
// CS 1400
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// Date last modified: October 15, 2013
// This file contains the Box class

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

// both files must have the same namespace
namespace Boxes
{

    // The Box class definition
    class Box
    {
        // The data members of the class.
        // If a value can be calculated, do not declare a data member for it
        private int height = 0;
        private int width = 0;
        private int depth = 0;

        // The default constructor
        // Purpose: It sets all declared variables (data members of the class) to
zero
        // Parameters: None
        // Returns: None
        public Box()
        {
            height = 0;
            depth = 0;
            width = 0;
        }

        // The parameterized constructor
        // Purpose: It sets all declared variables (data members of the class) to
the values passed in
        // Parameters: Integers, the height, width, and depth values for this Box
object
        // Returns: None
        public Box(int p1, int p2, int p3)
        {
            // store the parameter value in the corresponding data member
            // The first paramete is the height, teh swecond the width, and the
third the depth
            height = p1;
            width = p2;
            depth = p3;
        }

        // The GetHeight method
        // Purpose: To return the height value of this Box object

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// Parameters: None
// Returns: An integer height value
public int GetHeight()
{
    return height;
}

// The GetWidth method
// Purpose: To return the width value of this Box object
// Parameters: None
// Returns: An integer width value
public int GetWidth()
{
    return width;
}

// The GetDepth method
// Purpose: To return the depth value of this Box object
// Parameters: None
// Returns: An integer depth value
public int GetDepth()
{
    return depth;
}

// The CalcVolume method
// Purpose: To return the volume of this Box object
// Parameters: None
// Returns: An integer volume value
public int CalcVolume()
{
    int volume = height * width * depth;
    return volume;
}
}
}

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