\* CarpetCalculatorApp.cs

\* Author: Doyle

\* This class instantiates an object

\* of the CarpetCalculator class. It

\* demonstrates how to access and use

\* the members of the class.

\*/

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace CarpetCalculatorApp

{

public class CarpetCalculatorApp

{

static void Main(string[] args)

{

CarpetCalculator berber = new CarpetCalculator (17.95);

double roomWidth;

double roomLength;

DisplayInstructions( );

// Call getDimension( ) to get the length

roomLength = GetDimension("Length");

// Call getDimension( ) again to get the width

roomWidth = GetDimension("Width");

berber.SetNoOfSqYards(roomLength, roomWidth);

berber.PricePerSqYard = 25.99;

Console.Clear();

Console.Write(berber);

Console.ReadLine();

}

public static void DisplayInstructions( )

{

Console.WriteLine("This program will "

+ "determine how much "

+ "carpet to purchase.");

Console.WriteLine();

Console.WriteLine("You will be asked to enter "

+ "the size of the room ");

Console.WriteLine("and the price of the carpet, "

+ "in price per square yds.");

Console.WriteLine();

}

public static double GetDimension(string side )

{

string inputValue; // local variables

int feet, // needed only by this

inches; // method

Console.Write("Enter the {0} in feet: ", side);

inputValue = Console.ReadLine();

feet = int.Parse(inputValue);

Console.Write("Enter the {0} in inches: ", side);

inputValue = Console.ReadLine();

inches = int.Parse(inputValue);

// Note: cast required to avoid int division

return (feet + (double) inches / 12);

}

// //With the ToString( ) method, there is no longer a need for

// // the DisplayResults( ) method

// // It is left in the solution to illustrate sending an

// // entire class object to a method

//static void DisplayResults(CarpetCalculator carpet )

//{

// Console.WriteLine( );

// Console.Write("Square Yards needed: ");

// Console.WriteLine("{0:N2}", carpet.GetNoOfSquareYards());

// Console.Write("Total Cost at {0:C} ",

// carpet.Price);

// Console.WriteLine(" per Square Yard: {0:C}",

// carpet.DetermineTotalCost( ));

//}

}

}