**Code:**

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| // Problem 4. Calculate Hypotenuse  // You are given three right angled triangles. Find the length of their hypotenuses.  /\* 1. Catheti: 3 and 4  2. Catheti: 10 and 12  3. Catheti 100 and 250  \*/  using System;  class CalculateHypotenuse  {  static void Main()  {  // Using Pythagoras' Theorem: a^2 + b^2 = c^2  // hypotenuse c = square root of a^2 + b^2, or  // 1. Catheti: 3 and 4  double c1 = HypotenuseCalculator(3, 4);  Console.WriteLine("Catheti: 3 and 4 \nHypotenuse: {0}\n", c1);  // 2. Catheti: 10 and 12  double c2 = HypotenuseCalculator(10, 12);  Console.WriteLine("Catheti: 10 and 12 \nHypotenuse: {0}\n", c2);  // 3. Catheti 100 and 250  double c3 = HypotenuseCalculator(100, 250);  Console.WriteLine("Catheti: 100 and 250 \nHypotenuse: {0}\n", c3);  }  // the method below is a reusable hypotensue calculator code  // which we will be applying the all the 3 groups of input numbers  private static double HypotenuseCalculator(int a, int b)  {  double c = Math.Sqrt(a \* a + b \* b);  return c;  }  } |

**Output:**

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| Catheti: 3 and 4  Hypotenuse: 5  Catheti: 10 and 12  Hypotenuse: 15.6204993518133  Catheti: 100 and 250  Hypotenuse: 269.258240356725  Press any key to continue . . . |