String Formatting for C# - A-Level Computer Science

**Currency:**

double value = 123.456m;

Console.WriteLine(value.ToString("C2"));

// Displays £123.46

Alternatively:

double value = 123.456m;

Console.WriteLine("Your account balance is {0:C2}.", value);

// Displays "Your account balance is £123.46."

**Alternative examples of Output**

double floating = 10761.937554;

Console.WriteLine("C: {0}", floating.ToString("C", ci)); // Displays "C: £10,761.94"

Console.WriteLine("E: {0}", floating.ToString("E03", ci)); // Displays "E: 1.076E+004"

Console.WriteLine("F: {0}", floating.ToString("F04", ci)); // Displays "F: 10761.9376"

Console.WriteLine("G: {0}", floating.ToString("G", ci)); // Displays "G: 10761.937554"

Console.WriteLine("N: {0}", floating.ToString("N03", ci)); // Displays "N: 10,761.938"

Console.WriteLine("P: {0}", (floating/10000).ToString("P02", ci)); // Displays "P: 107.62 %"

Console.WriteLine("R: {0}", floating.ToString("R", ci)); // Displays "R: 10761.937554"

Console.WriteLine();

**Format to X number of Decimal Places:**

double value;

value = 123.45678;

Console.WriteLine(value.ToString("0.0#"));

// Displays 123.5

value = -12345;

Console.WriteLine(value.ToString("D"));

// Displays -12345

Console.WriteLine(value.ToString("D8"));

// Displays -00012345

**Format to X number of Digits:**

int value;

value = 12345;

Console.WriteLine(value.ToString("D"));

// Displays 12345

Console.WriteLine(value.ToString("D8"));

// Displays 00012345 (it therefore pads it out with a number of leading zeroes)

value = -12345;

Console.WriteLine(value.ToString("D"));

// Displays -12345

Console.WriteLine(value.ToString("D8"));

// Displays -00012345