

1. why the output of this Equation = \$30.00?

Because of the use of the C: currency format specifier it adds the correct currency symbol (\$)

And ensures 2 decimal places.

2. what is its benefit?

converts a number to a string that represents a currency amount . Formats numbers as currency, Easier to maintain and read and Cleaner code.

3. try another example with a different specifier with a screenshot of the output.

The screenshot shows the Microsoft Visual Studio IDE interface. The top menu bar includes File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help, and a Search bar. The toolbar below has icons for file operations like Open, Save, and Print, along with build and debug tools. The solution explorer on the left shows a project named 'FirstProject' with a single file 'Program.cs'. The code editor window displays the following C# code:

```
2 {  
3     0 references  
4     internal class Program  
5     {  
6         0 references  
7         static void Main(string[] args)  
8         {  
9             double rate = 0.75;  
10            Console.WriteLine($"{rate:p1}");  
11  
12            double large = 1345.897;  
13            Console.WriteLine($"{large:N2}");  
14        }  
15    }  
16 }
```

A small pop-up window titled "Select Microsoft Visual Studio Debug Console" is open at the bottom of the code editor, displaying the output of the program:

```
75.0%  
1,345.90
```

The status bar at the bottom of the IDE indicates the path: E:\C#Folders\Week1\FirstProject\bin\Debug\net8.0\FirstProject.exe (process 8968) exited with code 0. Press any key to close this window . . .