

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

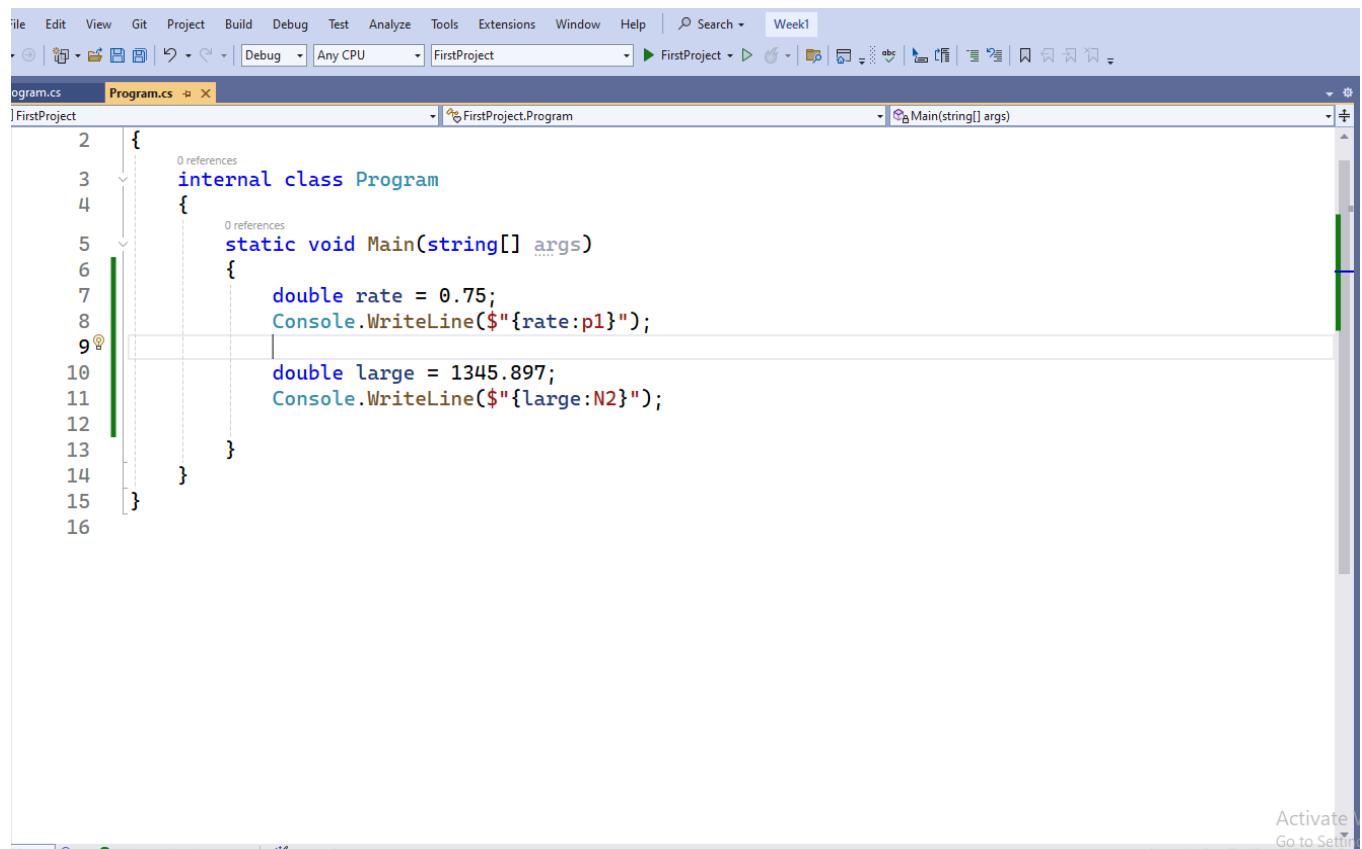
Because of the use of the C: currency format specifier it adds the correct currency symbol (\$)

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 labeled "Search". Below the menu is a toolbar with various icons. The main workspace shows a file named "Program.cs" under the project "FirstProject". The code editor displays the following C# code:

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

The code uses the `p1` and `N2` format specifiers to format the output of the `Console.WriteLine` statements. The `p1` specifier formats the double value as a percentage with one decimal place, resulting in "\$0.75". The `N2` specifier formats the double value as a decimal with two decimal places, resulting in "1345.89".