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Standard Numeric Format:

Each standard format specifier denotes a commonly used string representation of numeric data, are single-character codes that represent commonly used formats for displaying numeric values.

You can use them with ToString() or string interpolation (\${value:Format})

“C” -> **Currency**. It formats a number as currency using the system’s local currency symbol and includes two decimal places by default.

“D” -> **Decimal**. It's used only for integers and formats them as whole numbers. You can also specify how many digits to show by padding with leading zeros.

“E” -> **Exponential**. It displays the number using powers of 10, useful for very large or small values.

“F” -> **Fixed-point**. It formats numbers with a fixed number of decimal places, usually two by default.

“G” -> **General**. It automatically chooses the most compact format: either fixed-point or scientific notation, depending on the size of the number.

“N” -> **Number**. It formats the number with group separators (such as commas or Arabic-style separators) and includes decimal places, making large numbers easier to read.

“P” -> **Percent**. It multiplies the number by 100 and appends a percent sign

“R” -> **Round-trip** formatting. It ensures that the number can be converted to a string and back again with no loss of information, preserving full precision.

“X” -> **Hexadecimal**. It formats an integer as a hexadecimal (base 16) number. You can use uppercase (X) or lowercase (x) letters for the output.

“B” -> **Binary**. It formats an integer as a binary number.

Benefits:

- 1- Instead of manually formatting strings, you just use one letter.
- 2- Give Professional, Clean Output to read.
- 3- Controls Precision Easily.

Output:

```
int X = 10;  
int Y = 20;  
Console.WriteLine($"Equation: {X} + {Y} = {X + Y:B}");
```

Microsoft Visual Studio Debug Console

Equation: 10 + 20 = 11110

C:\Users\Lenovo\source\repos\Search_01\bin\Debug\net9.0\Search_01.exe (process 9352) exited with code 0 (0x0).
Press any key to close this window . . .