



ALPER TUNGA

@altudev



Null-Coalescing Operator in C#



CODING TIPS & TRICKS



ALPER TUNGA

@altudev



The Null Coalescing Operator (??) is an overlooked but beneficial C# operator.



CODING TIPS & TRICKS



ALPER TUNGA

@altudev



We use the ?? to determine whether a variable's value is null and, if so, to return a default value instead.



CODING TIPS & TRICKS



ALPER TUNGA

@altudev



Before

```
1 public decimal CalculateTax(decimal amount, int? taxRate)
2 {
3     // Example 1 (if & else)
4     if(taxRate is null)
5         throw new ArgumentNullException(nameof(taxRate), $"Null value is not allowed.");
6
7     return (amount / 100) * taxRate;
8 }
9
```

```
1 public decimal CalculateTax(decimal amount, int? taxRate)
2 {
3     // Example 2 (Ternary Operator)
4     taxRate = taxRate is null ? 18 : taxRate;
5
6     return (amount / 100) * taxRate;
7 }
8
9
```



CODING TIPS & TRICKS



ALPER TUNGA

@altudev



After

```
1 public decimal CalculateTax(decimal amount, int? taxRate)
2 {
3     // (Null Coalescing Operator)
4     // If the taxRate variable is null, then it will be assigned as 18.
5     return (amount / 100) * taxRate ?? 18;
6 }
7
8
9
```

It simplifies the process.



CODING TIPS & TRICKS



ALPER TUNGA

@altudev



Another example

```
1 public decimal CalculateTax(decimal amount, int? taxRate)
2 {
3     // (Null Coalescing Operator)
4     // If the taxRate variable is null, then it will throw an ArgumentNullException.
5     return (amount / 100) * taxRate ?? throw new ArgumentNullException(nameof(taxRate), $"Null value is not allowed");
6 }
7
8
```

It reduces the amount of code.



CODING TIPS & TRICKS



ALPER TUNGA

@altudev

save for later →



**Follow me for threads
on C# and .NET**

**Lastly, keep coding,
my friend...**

