C#

Lambda Expressions

What

› "Lambda Expressions" (a.k.a. Statement Lambda) are "name-less methods", that can be invoked by using the delegate variable or an event, much like anonymous methods.

How

> **Handle Event with Lambda Expressions**
>
> ```
> EventName += (param1, param2, ...) =>
> {
>     //method body here
> }
> ```

› Lambda Expressions can be used anywhere within the method, to create methods instantly, without define a method at the class level.

› <u>Advantage:</u> It provides more easier and convenient syntax than "Anonymous methods".

› => operator is called as "goes to" or "goes into" operator.

Inline Lambda Expressions

What

› "Inline Lambda Expressions" (a.k.a. Expression Lambda) are the lambda expressions, which performs a small calculation or condition check and returns a value.

› Inline lambdas can receive one or more arguments and must return a value.

› Advantage: It provides more easier and convenient syntax to create smaller methods that performs a single calculation or condition check.

How

Handle Event with Inline Lambda Expressions
EventName += (param1, param2, ...) => condition or calculation