Use LINQ to Iterate over Collections

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Module Goals

Perform set operations

Assign values within collection

Set Operations

Set Operations

Iterate over collection

Set a property value in collection

(similar to a SQL UPDATE)

Examples:

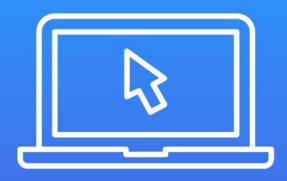**1. Calculate Line Total**

2. Set TotalSales for Product

Set Length of Name Property

Query syntax uses the 'let' keyword

```
(from prod in products

 let tmp=prod.NameLength
    = prod.Name.Length

select prod);
```

Method syntax uses the ForEach() method

```
products.ForEach(
   p => p.NameLength
    = prod.Name.Length);
```

Demo

Calculate the line total for a sale

Demo

Set the total sales using a method

Filter results to TotalSales > 0

Module Summary

Use ForEach() method to iterate

Use 'let' keyword to assign values

Use sub-query to calculate values

Call methods from within ForEach()

Up Next:

Understanding Deferred Execution, Streaming, and Non-Streaming Operations