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Part 5 - Aggregate function in LINQ

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In this video we will discuss the use of **Aggregate()** LINQ function. In [Part 4](#) of [LINQ Tutorial](#), we discussed the following functions.

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Let us understand the use of **Aggregate()** function with examples.

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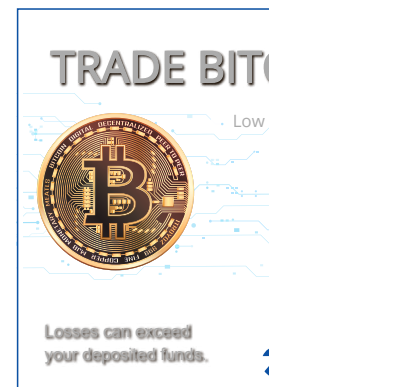
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Example 1: Consider the following string array.

```
string[] countries = { "India", "US", "UK", "Canada", "Australia" };
```

We want to combine all these strings into a single comma separated string. The output of the program should be as shown below.

India, US, UK, Canada, Australia

Without LINQ, the program will be as shown below.

```
using System;
namespace Demo
{
    class Program
    {
        static void Main()
        {
            string[] countries = { "India", "US", "UK", "Canada", "Australia" };

            string result = string.Empty;
            for (int i = 0; i < countries.Length; i++)
            {
                result = result + countries[i] + ",";
            }

            int lastIndex = result.LastIndexOf(",");
            result = result.Remove(lastIndex);

            Console.WriteLine(result);
        }
    }
}
```

With LINQ Aggregate function

```
using System;
using System.Linq;
namespace Demo
{
    class Program
    {
        static void Main()
        {
            string[] countries = { "India", "US", "UK", "Canada", "Australia" };

            string result = countries.Aggregate((a, b) => a + ", " + b);

            Console.WriteLine(result);
        }
    }
}
```

How Aggregate() function works?

Step 1. First "India" is concatenated with "US" to produce result "India, US"

Step 2. Result in **Step 1** is then concatenated with "UK" to produce result "India, US, UK"

Step 3: Result in **Step 2** is then concatenated with "Canada" to produce result "India, US, UK, Canada"

This goes on until the last element in the array to produce the final single string "India, US, UK, Canada, Australia"

Example 2: Consider the following integer array

```
int[] Numbers = { 2, 3, 4, 5 };
```

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Compute the product of all numbers

Without LINQ

```
using System;
namespace Demo
{
    class Program
    {
        static void Main()
        {
            int[] Numbers = { 2, 3, 4, 5 };

            int result = 1;
            foreach (int i in Numbers)
            {
                result = result * i;
            }

            Console.WriteLine(result);
        }
    }
}
```

With LINQ:

```
using System;
using System.Linq;
namespace Demo
{
    class Program
    {
        static void Main()
        {
            int[] Numbers = { 2, 3, 4, 5 };

            int result = Numbers.Aggregate((a, b) => a * b);

            Console.WriteLine(result);
        }
    }
}
```

How Aggregate() function works?

Step 1: Multiply (2X3) to produce result 6

Step 2: Result (6) in **Step 1** is then multiplied with 4 (6X4) to produce result 24

Step 3: Result (24) in **Step 2** is then multiplied with 5 (24X5) to produce final result 120

Example 3: Consider the following integer array

```
int[] Numbers = { 2, 3, 4, 5 };
```

One of the overloaded version of **Aggregate()** function has a **Seed** parameter. If we pass 10 as the value for Seed parameter

```
int result = Numbers.Aggregate(10, (a, b) => a * b);
```

1200 will be the result

Step 1: Multiply (10X2) to produce result 20

Step 2: Result (20) in **Step 1** is then multiplied with 3 (20X3) to produce result 60

Step 3: Result (60) in **Step 2** is then multiplied with 4 (60X4) to produce result 240

Step 4: Result (240) in **Step 3** is then multiplied with 5 (240X5) to produce final result 1200

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Ahmet Toka July 22, 2014 at 5:50 PM

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