

# C# List<T>

C# List<T> class is used to store and fetch elements. It can have duplicate elements. It is found in System.Collections.Generic namespace.

## C# List<T> example

Let's see an example of generic List<T> class that stores elements using Add() method and iterates the list using for-each loop.

```
using System;
using System.Collections.Generic;

public class ListExample
{
    public static void Main(string[] args)
    {
        // Create a list of strings
        var names = new List<string>();
        names.Add("Sonoo Jaiswal");
        names.Add("Ankit");
        names.Add("Peter");
        names.Add("Irfan");

        // Iterate list element using foreach loop
        foreach (var name in names)
        {
            Console.WriteLine(name);
        }
    }
}
```

Output:

```
Sonoo Jaiswal
Ankit
Peter
Irfan
```

## C# List<T> example using collection initializer

```
using System;
using System.Collections.Generic;

public class ListExample
{
    public static void Main(string[] args)
    {
        // Create a list of strings using collection initializer
        var names = new List<string>() {"Sonoo", "Vimal", "Ratan", "Love"};

        // Iterate through the list.
        foreach (var name in names)
        {
            Console.WriteLine(name);
        }
    }
}
```

Output:

```
Sonoo
Vimal
Ratan
Love
```