Indexers With Example:

Using System;

interface IIndexers

{

string this[int index]

{

get;

set;

}

}

//syntax of indexer

**public <return type> this[<parameter type> index]**

**{**

**Get**

**{**

**// return the value from the specified index**

**}**

**Set**

**{**

**// set values at the specified index**

**}**

**}**

// indexer is cross between property and an array which is smart array..

// class declaration and implement IIndexrs in Child class

class IndexerCreation:IIndexers

{

// class members

private string[] val = new string[3];

// Indexer declaration

// Here public is the modifier

// string is the return type of

// Indexer and "this" is the keyword

// having parameters list

public string this[int index]

{

// get Accessor retrieving the values stored in val[] array of strings

get

{

return val[index];

}

// set Accessor setting the value at passed index of val

set

{

// value keyword is used to define the value being assigned by the

// set indexer.

val[index] = value;

}

}

}

class main

{

public static void Main()

{

// creating an object of parent class which

// acts as primary address for using Indexer

IIndexers ic = new IndexerCreation();

// Inserting values in ic[]

// Here we are using the object of class as an array

//

ic[0] = "C";

ic[1] = "CPP";

ic[2] = "CSHARP";

Console.Write("Printing values stored in objects used as arrays\n");

// printing values

Console.WriteLine("First value = {0}", ic[0]);

Console.WriteLine("Second value = {0}", ic[1]);

Console.WriteLine("Third value = {0}", ic[2]);

}

}