

***C# Basics***

**Lab Guides**

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RECORD OF CHANGES

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|  | **CODE: Net.S.L006**  **TYPE: SHORT**  **LOC: 15**  **DURATION: 10 MINUTES** |

# Lab 6: Work with String Data

Objectives:

* Understand about use String data type in C#.

Prerequisites:

* Download and installs Visual Studio (included .net Framework)

Problem Description:

* Write a C# console application to working with string.
* Use methods of string.

Guidelines:

### Step 1: Create project named **Strings** in Visual Studio

### Step 2: Open the **Program.cs** and update **Main** method

string name = "My name is Tony Stack!";

Console.WriteLine(name);

Console.WriteLine("Index of Tony is: {0}", name.IndexOf("Tony"));

//// To include double-quote (") in string, use \"

Console.WriteLine("Substring of \"{0}\" from 11 is: {1}", name, name.Substring(11));

//// Divide the string by a space.

string[] strArray = name.Split(' ');

//// Show all element of strArray.

for (int i = 0; i < strArray.Length; i++)

{

Console.WriteLine($"Value at Index position [{i}] is {strArray[i]}");

}

//// Using double slash "\\"

string stream1 = "X:\\SourceCode\\Strings\\program.cs";

Console.WriteLine(stream1);

//// Using "@".

string stream2 = @"X:\SourceCode\Strings\program.cs";

Console.WriteLine(stream2);

//// Using concatenation operator

Console.WriteLine("Full name is: {0}", strArray[3] + " " + strArray[4]);

//// Using string.Format.

DateTime dateAndTime = new DateTime(2019, 8, 26, 12, 32, 0);

double temperature = 28.6;

string result = String.Format("At {0:t} on {0:D}, the temperature was {1:F1} degrees C.", dateAndTime, temperature);

Console.WriteLine(result);

//// Keep the console window open in debug mode.

Console.WriteLine();

Console.WriteLine("Press any key to exit.");

Console.ReadKey();

### Step 3: Choose the F5 key to run the project.

Outputs

