2.4 Working with Text 



This section will guide you to:

* Create a Windows Console project in Visual Studio to demonstrate working with text
* Create a method doApp() that will demonstrate the use of string and StringBuilder

**Development Environment**

* Visual Studio 2019 Community Version

This guide has five subsections, namely:

* + 1. Creating a Windows Console project in Visual Studio to demonstrate working with text
    2. Adding a method doApp() in Program class that will demonstrate the use of string and StringBuilder
    3. Building the project
    4. Publishing and running the project
    5. Pushing the code to your GitHub repositories

**Step** **2.4.1:** Creating a Windows Console project in Visual Studio to show the control flow

* Open Visual Studio.
* From the top menu, select **File->New->Project.**
* In **Create A New Project** Screen, select **Console app (.NET Core)** from the list of available Project types and click on **Next.**
* Enter **Project Name** as **Phase1Section3.10** and click on **Create.**
* This will create the files for a Windows Console project.

**Step** **2.4.2:** Adding a method doApp() in Program class that will demonstrate the use of string and StringBuilder

* Select **Program.cs** as the current Code tab.
* Enter the following code:

**using** System;

**using** System.Text;

**namespace** Phase1Section3.\_10

{

**class** Program

{

**static** **void** Main(**string**[] args)

{

doApp();

}

**public** **static** **void** doApp()

{

**string** mary = "Mary had a little lamb.";

Console.WriteLine("Original string=" + mary);

Console.WriteLine("Clone of a string =" + mary.Clone());

Console.WriteLine("Compare two strings =" + mary.CompareTo("Mary had a big lamb"));

Console.WriteLine("Characters in a string =" + mary.Contains("r"));

Console.WriteLine("String ending with =" + mary.EndsWith("lamb."));

Console.WriteLine("All lowercase =" + mary.ToLower());

Console.WriteLine("All uppercase =" + mary.ToUpper());

Console.WriteLine("Insert string within a string =" + mary.Insert(4, " and Jack "));

Console.WriteLine("Splitting string into words:");

**string**[] parts = mary.Split(" ");

**foreach**(**string** p **in** parts)

{

Console.WriteLine(p);

}

StringBuilder sb = **new** StringBuilder("");

**for**(**int** i = 0; i < 10; i++)

{

sb.Append(i.ToString() + " ");

}

Console.WriteLine(sb.ToString());

}

}

}

**Step** **2.4.3:** Building the project

* From the top menu, choose **Build->Build Solution.**
* If any compile errors are shown, fix them as required.

**Step** **2.4.4:** Publishing and running the project

* From the top menu, select **Debug->Start Without Debugging.**
* This will execute the program in a console window.

**Step** **2.4.5:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add .

Commit the changes using the following command:

git commit -m “Changes have been committed.”

Push the files to the folder you created initially using the following command:

git push -u origin master