Laboratory Exercise
Creating Text File

Objectives:

At the end of the exercise, the students should be able to:

- Specify options in handling files; and
- Use predefined classes in writing to and reading from a file.

Software Requirement:

- Visual Studio IDE 2015 or higher

Procedures:

1. Create a program that generates a basic text file. This program should have two (2) windows form named **`FrmLab1`** and **`FrmFileName`**. See *Figures 1* and *2*.

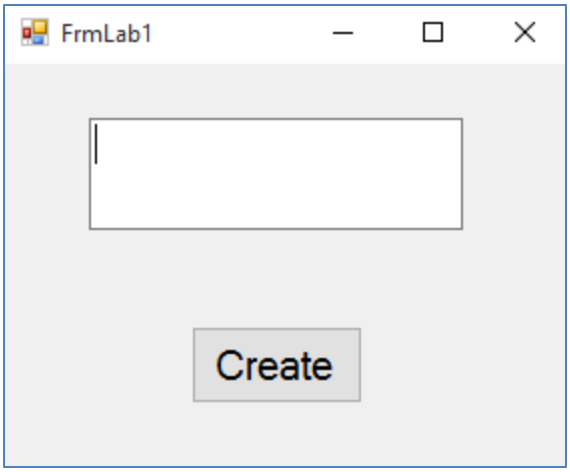


Figure 1. FrmLab1

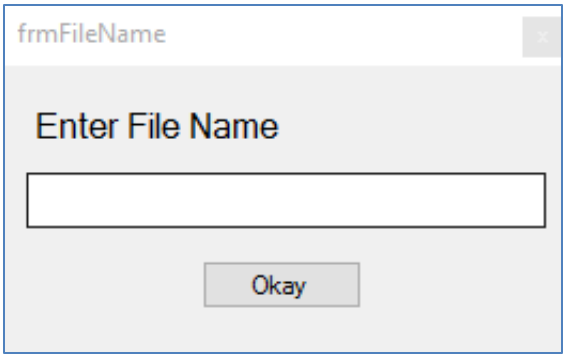


Figure 2. FrmFileName

2. Follow the given design in *Figures 1* and *2*. See *Table 1* for the names of the control that contains function.

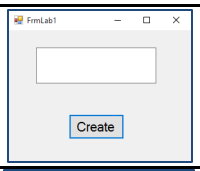
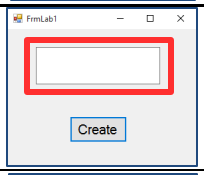
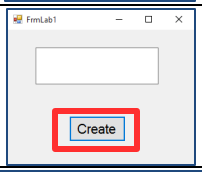
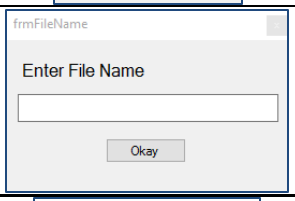
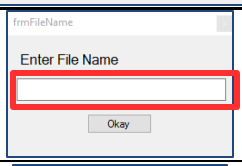
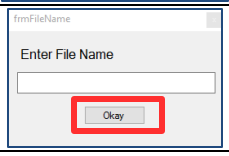
Forms/Controls	Name	
Form	FrmLab1	
TextBox	txtInput	
Button	btnCreate	
Form	FrmFileName	
TextBox	txtFileName	
Button	btnOkay	

Table 1. Forms and controls

3. In `FrmLab1`, double click the **Create** button and write the following syntax that are needed:
   a. Declare an instance **`FrmFileName`** and call **`ShowDialog()`** method.
   b. Declare a string variable named **`getInput`** and get the value of the **`TextBox`** named **`txtInput`**.

```
string docPath =
Environment.GetFolderPath(Environment.SpecialFolder.MyDocuments);

using (StreamWriter outputFile = new StreamWriter(Path.Combine(docPath,
FrmFileName.SetFileName)))
{
    outputFile.WriteLine(getInput);
    Console.WriteLine(getInput);
}
```

4. Go to **`FrmFileName`** and click **Okay** to generate an event click.
5. Inside the event, click the **Okay** button. Set the value of the static string **`SetFileName`** by calling the value of **`txtFileName`**, and concatenate it with ".txt".
6. Call the **`Close()`** method afterward.

Note: *You need to create a public static string above the constructor for `SetFileName` of `FrmFileName`.*

7. Run the program to check the output.

   Note: *You might encounter some errors, so analyze and understand the code.*

Challenge Exercise:

1. In this challenge exercise, you will create another form named **FrmRegistration**. See *Figure 3.*

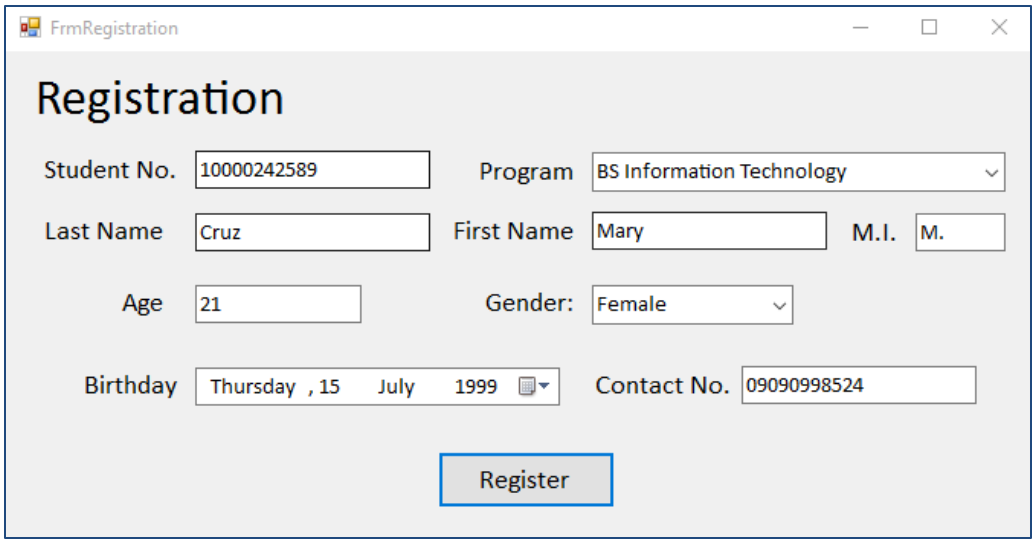


Figure 3. FrmRegistration

2. This program should generate a text file same as above. The file name of the text should be set according to its student number.

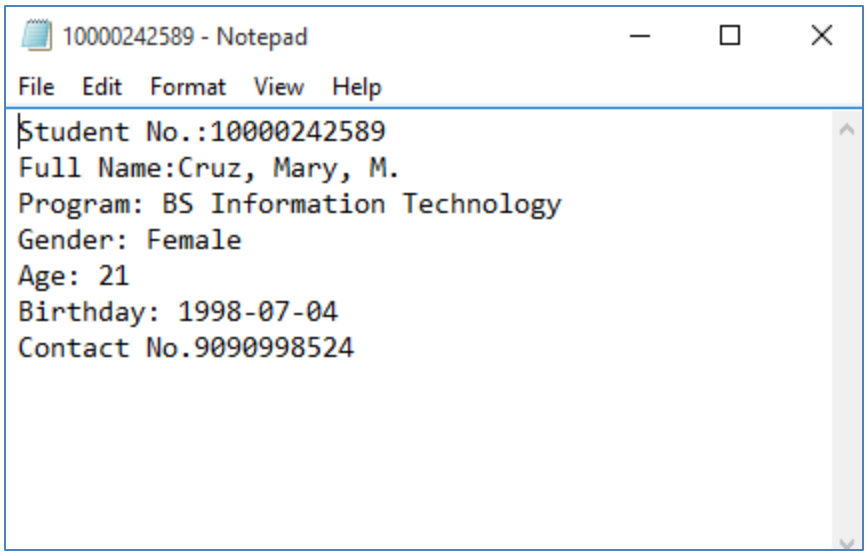


Figure 4. RegistrationTextFile

3. Run the program to check the output. See *Figure 4* for the sample output of text file.

   Hint: *Create an array of string and use foreach to display all the content inside the* `WriteLine` *method.*

4. Inform your instructor once you're done with the Challenge Exercise as this will be recorded.
5. Save your file in a folder with the filename **LastName_FirstName_LabStream** (ex. Cruz_Christian_LabStream). This will be collected by your instructor.

Grading Rubric:

CRITERIA	PERFORMANCE INDICATORS	POINTS
Correctness	The code produces the expected result.	30
Logic	The code meets the specifications of the problem.	30
Efficiency	The code is concise without sacrificing correctness and logic.	20
Syntax	The code adheres to the rules of the programming language.	20
Total		**100**