

Create a Text-file Based System For Storing and Updating Teacher Records

My program is as simple as a starter

It contains 3 simple functions

First-1 to welcome Method

Second-2 Teacher Records Method for adding, searching, modifying and displaying teachers in the system

I add txt file path and file name where data stored & Read txt file from line to line to list

Define file path & Show Option To user To select one of Them 1-2-3-4

Option 1- Add showing message ask user how many Teachers To Add

First will take number of records to insert

and ask user for this info:

1-Enter TeacherID

2-Enter TeacherName

3-Enter TeacherClass

4- Enter TeacherSection.

Option 2 - Search showing message ask user Enter Teacher ID to Search

Ask user to Enter TeacherID To Search

Option 3 - Update showing message ask user Enter Teacher ID to update Teacher info

Enter TeacherID for Data UPDET

and update all fields

Option 4 - show all Teacher stored in txt file

Third-3 shows a thank you message Method

Screenshots

```
Microsoft Visual Studio Debug Console

Welcome to my little project It is an example of a system for storing teachers' data Sponsored by Simplilearn

** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0 TO EXIT . **
1
How many Teachers you want To Add ? :1
Last Records Number is 0
Enter TeacherID :1
Enter TeacherName :Mohammed AL Asmri
Enter TeacherClass :C# .NET
Enter TeacherSection :Programing
Insert data successfully

** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0 TO EXIT . **
2
Enter TeacherID To Search :
1
TeacherID :1      TeacherName Mohammed AL Asmri      TeacherClass C# .NET      TeacherSection Programing

** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0 TO EXIT . **
3
Enter TeacherID for Data UPDET :
1
Enter Name :Mohammed Asmri
Enter Class :C#, Python
Enter Section :Programing
Mohammed Asmri successful updated
TeacherID :1      TeacherName Mohammed Asmri      TeacherClass C#, Python      TeacherSection Programing

** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0 TO EXIT . **
4
Number Of Records stored in moasmrit.txt is 1
1      Mohammed Asmri      C#, Python      Programing

** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0 TO EXIT . **
0
Thank you for trying my little app. I hope to make bigger projects than this and keep learning .NET with simplilearn
See you on another project

C:\Users\abusa\Desktop\123\simplilearn\Teacher_Records_System\bin\Debug\net5.0\Teacher_Records_System.exe (process 28668) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

```

using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;

namespace Teacher_Records_System
{
    class Program
    {
        static void Main(string[] args)
        {
            welcome();
            Console.WriteLine();
            Teacher_Records();
            Console.ReadKey();
            ByeMessage();
        }

        static void welcome() // first shows welcome message
        {
            Console.ForegroundColor = ConsoleColor.Green;

            Console.WriteLine("\t" +
                "Welcome to my little project It is an example of a system for storing teachers' data Sponsored by Simplilearn");

            Console.ForegroundColor = ConsoleColor.Yellow;
        }

        static void Teacher_Records()
        {
            bool system_status = true;
            string txtPath = @"C:\Users\abusa\Desktop\123\simplilearn\Teacher_Records_System\moasmrit.txt";// txt file path and name

            while (system_status)
            {
                List<string> lines = File.ReadAllLines(txtPath).ToList();//best to read a File into List
                Console.WriteLine();

                Console.ForegroundColor = ConsoleColor.Yellow;
                Console.WriteLine("*** Select Option 1- Add Teacher 2- Search in Teachers 3- Update Teacher 4- Display Teacher || 0
TO EXIT . ***");
                string User_choice = Console.ReadLine();
                Console.ForegroundColor = ConsoleColor.White;
            }
        }
    }
}

```

```

if (User_choice == "1")//Option 1- Add showing message ask user how many Teachers To Add
{
    Console.WriteLine("How many Teachers you want To Add ? :");
    int TeacherCount = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Last Records Number is " + lines.Count);// get number of record to suggest next TeacherID
    for (int i = 0; i < TeacherCount; i++)
    {
        Console.WriteLine("Enter TeacherID :");
        int TeacherID = Convert.ToInt32(Console.ReadLine());
        Console.WriteLine("Enter TeacherName :");
        string TeacherName = Console.ReadLine();
        Console.WriteLine("Enter TeacherClass :");
        string TeacherClass = Console.ReadLine();
        Console.WriteLine("Enter TeacherSection :");
        string TeacherSection = Console.ReadLine();
        string x = TeacherID.ToString() + '\t' + TeacherName + '\t' + TeacherClass + '\t' + TeacherSection;
        lines.Add(x);
        lines.Sort();
        File.WriteAllLines(txtPath, lines);
        Console.WriteLine(" Insert data successfully");
    }
}
else if (User_choice == "2")// Option 2 - Search showing message ask user Enter Teacher ID to Search
{
    Console.ForegroundColor = ConsoleColor.Green;
    Console.WriteLine("Enter TeacherID To Search :");
    string SearchID = Console.ReadLine();
    foreach (var line in lines)
    {
        string[] dataArray = line.Split(' ');
        if (dataArray[0] == SearchID)
        {
            Console.WriteLine("TeacherID :" + dataArray[0] + "\t TeacherName " + dataArray[1] + "\t TeacherClass " +
dataArray[2] + "\t TeacherSection " + dataArray[3] + "\t");
            Console.ForegroundColor = ConsoleColor.Green;
        }
    }
}
else if (User_choice == "3") // Option 3 - Update showing message ask user Enter Teacher ID to update Teacher info
{
    Console.ForegroundColor = ConsoleColor.Blue;
    Console.WriteLine("Enter TeacherID for Data UPDET :");
    string SearchID = Console.ReadLine();

    foreach (var line in lines)

```

```

{
    string[] DataArray = line.Split(' ');
    if (DataArray[0] == SearchID)
    {
        lines.Remove(DataArray[0] + '\t' + DataArray[1] + '\t' + DataArray[2] + '\t' + DataArray[3]);
        Console.Write("Enter Name :");
        string TeacherName = Console.ReadLine();
        Console.Write("Enter Class :");
        string TeacherClass = Console.ReadLine();
        Console.Write("Enter Section :");
        string TeacherSection = Console.ReadLine();
        DataArray[1] = TeacherName;
        DataArray[2] = TeacherClass;
        DataArray[3] = TeacherSection;
        string newdta = SearchID + '\t' + DataArray[1] + '\t' + DataArray[2] + '\t' + DataArray[3];
        lines.Add(newdta);
        lines.Sort();
        File.WriteAllLines(txtPath, lines);
        Console.WriteLine(DataArray[1] + " successful updated");
        Console.WriteLine("TeacherID :" + DataArray[0] + "\t TeacherName " + DataArray[1] + "\t TeacherClass " +
DataArray[2] + "\t TeacherSection " + DataArray[3]);
        break;
    }
}
}
else if (User_choice == "4")//Option 4 - show all Teacher stored in txt file
{
    Console.ForegroundColor = ConsoleColor.Cyan;
    string filename = null;

    // using the method
    filename = Path.GetFileName(txtPath);
    Console.WriteLine("Number Of Records stored in " + filename + " is " + lines.Count);
    Console.ForegroundColor = ConsoleColor.Red;

    foreach (string line in lines)
    {
        string[] DataArray = line.Split(' ');

        Console.WriteLine(" " + DataArray[0] + " \t " + DataArray[1] + " \t" + DataArray[2] + " \t " +
DataArray[3]);
    }
}

```

```

        Console.ForegroundColor = ConsoleColor.White;
    }
    else // stop while loop to exit from program
    {
        system_status = false;
    }
}

static void ByeMessage()
{
    Console.ForegroundColor = ConsoleColor.DarkBlue;
    Console.WriteLine("\tThank you for trying my little app. I hope to make bigger projects than this and keep learning .NET
with simplilearn ");
    Console.ForegroundColor = ConsoleColor.White;
    Console.WriteLine(" See you on another project ");
}
}
}

```

studint name: Mohammed abullah Al Asmri

Email: mo.asmri@gmail.com - Mobile:966507341450

my github account for Agile-Git-and-Basics-of-C-Programming
<https://github.com/moasmri/simplilearn>

Old Account
<https://github.com/abusamrah2005>