Day 15 Assignments

By

Praveen Chakravarthi

12-02-2022

NB Health Care
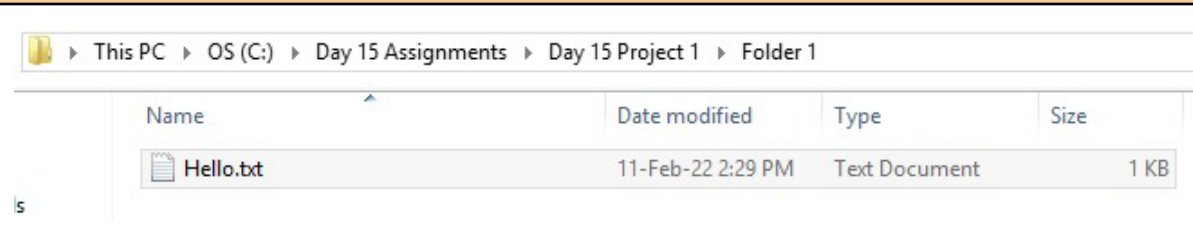
1. Research and write atleast 10 methods present in File Class. Illustrate with code example.

Code 1: (File.Create) : Create Files in the Given Path

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Create("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder 1\\Hello.txt");
            Console.WriteLine("File Created");
            Console.ReadLine();
        }
    }
}
```

Output:

Code 2: (File.WriteAllText) : Writes the content we enter the selected file

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.WriteAllText("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder 1\\Hello.txt",
"Hello, Welcome to C# Trainings");
```
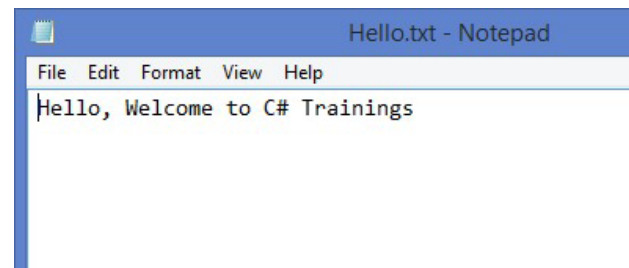
```
        Console.WriteLine("File Written");
        Console.ReadLine();
    }
  }
}
```

Code 3: (File.GetCreationTime) : Returns the Time when the file was created

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine("File is Created at: ");
            Console.WriteLine(File.GetCreationTime("C:\\Day 15 Assignments\\Day 15 Project
1\\Folder 1\\Hello.txt"));
            Console.ReadLine();
        }
    }
}
```

Output:

```
C:\Day 15 Assignments\Day 15
File is Created at:
11-Feb-22 2:22:42 PM
```

Code 4: (File.GetLastAccessTime) : Returns the time when the file was last Accessed

```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine("File is last Accessed at: ");
            Console.WriteLine(File.GetLastAccessTime("C:\\Day 15 Assignments\\Day 15
Project 1\\Folder 1\\Hello.txt"));

            Console.ReadLine();
        }
    }
}
```

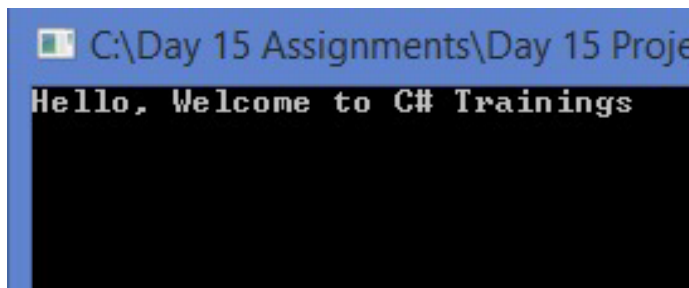### Output:


```
C:\Day 15 Assignments\Day 15
File is last Accessd at:
11-Feb-22 2:23:14 PM
```

Code 5: (File.ReadLines) : Reads the lines and returns if the entered content is in the file

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            foreach (string line in File.ReadLines("C:\\Day 15 Assignments\\Day 15 Project
1\\Folder 1\\Hello.txt"))

                if (line.Contains("C#"))
                    Console.WriteLine(line);
                else
                    Console.WriteLine("Sorry, There is no such Word");
            Console.ReadLine();
        }
    }
}
```

Output:


```
C:\Day 15 Assignments\Day 15 Proje
Hello, Welcome to C# Trainings
```

Code 6: (File.ReadAText) : Reads all the text in the file and returns it

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
```

```
    {
        static void Main(string[] args)
        {

            Console.WriteLine("The Content in the File is: ");
            Console.WriteLine(File.ReadAllText("C:\\Day 15 Assignments\\Day 15 Project
1\\Folder 1\\Hello.txt"));

            Console.ReadLine();
        }
    }
}
```
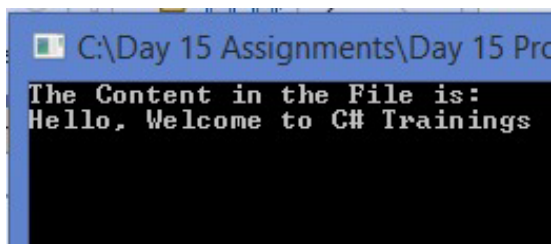
Output:

Code 7: (File.Copy) : Copies the Source File to the given Destination Path

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Copy("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder 1\\Hello.txt", "C:\\Day
15 Assignments\\Day 15 Project 1\\Folder 2\\Hello2.txt");
            Console.WriteLine("The File is Copied to the Destination Folder: ");
            Console.ReadLine();
        }
    }
}
```

Output:

Name	Date modified	Type	Size
Hello2.txt	11-Feb-22 2:29 PM	Text Document	1 KB

ls

Code 8: (File.Exists) : Returns True if the File exists in the given Path
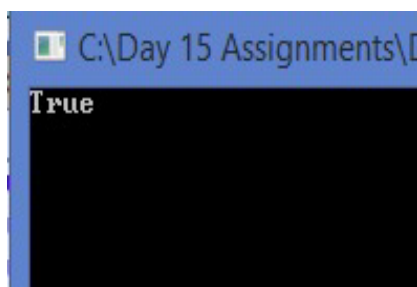
```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            bool v = File.Exists("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder 1\\Hello.txt");
            Console.WriteLine(v);
            Console.ReadLine();
        }
    }
}
```

Output:

If File Exists in the given path

```
C:\Day 15 Assignments\D
True
```

If file doesn't Exists in the given path

```
C:\Day 15 Assignments\
False
```

Code 9: (File.AppendAllText) : Appends the text in the file if the file exists in the given path or else creates one in that path and writes the text

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

```
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.AppendAllText("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder
1\\Hello.txt","This is Praveen Chakravarthi");
            Console.WriteLine("The File is Appended");
            Console.ReadLine();
        }
    }
}
```

Output:

Code 10: (File.Delete) : Deletes the File in the Given Path

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_2
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Delete("C:\\Day 15 Assignments\\Day 15 Project 1\\Folder 2\\Hello.txt");
            Console.WriteLine("File Deleted");
            Console.ReadLine();
        }
    }
}
```
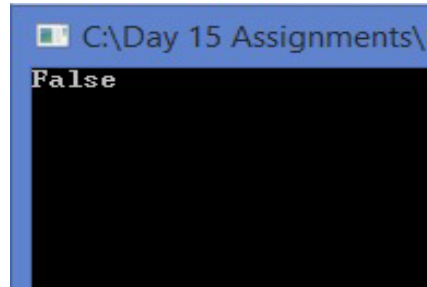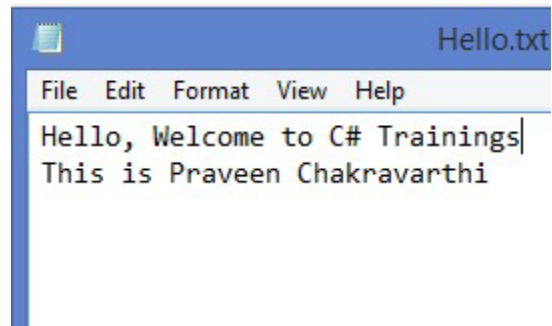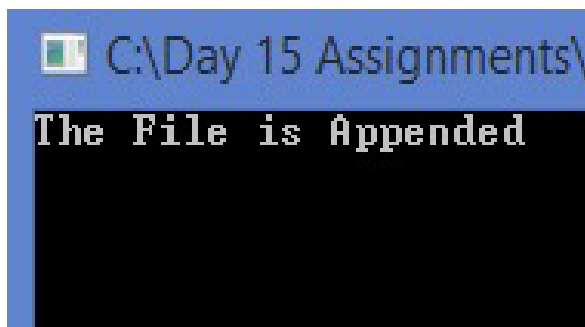
2. WACP to copy files from one folder to other folder. Schedule this job to be executed at daily some time and put the screen shot of task scheduler.
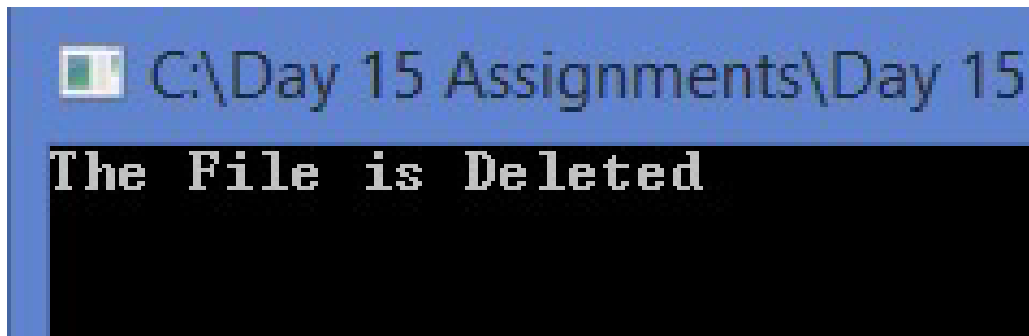
Code :

```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Task_Schedular_Program
{
    // Author : Praveen Chakravarthi
    // Purpose : Task Schedular Program
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Copy("C:\\Day 15 Assignments\\Score.txt", "C:\\New folder\\Score2.txt");
            Console.WriteLine("The File is Copied");
            Console.ReadLine();
        }
    }
}
```

Output:

Scheduled a task to copy a file from one folder to another at 01:16 pm

New Trigger

Begin the task: On a schedule

Settings

- ● One time   Start: 12- Feb -22 1:16:00 PM ☐ Synchronize across time zones
- ○ Daily
- ○ Weekly
- ○ Monthly

Advanced settings

- ☐ Delay task for up to (random delay): 1 hour
- ☐ Repeat task every: 1 hour   for a duration of: 1 day
  - ☐ Stop all running tasks at end of repetition duration
- ☐ Stop task if it runs longer than: 3 days
- ☐ Expire: 12- Feb -23   1:42:16 AM   ☐ Synchronize across time zones
- ☑ Enabled

[OK]   [Cancel]
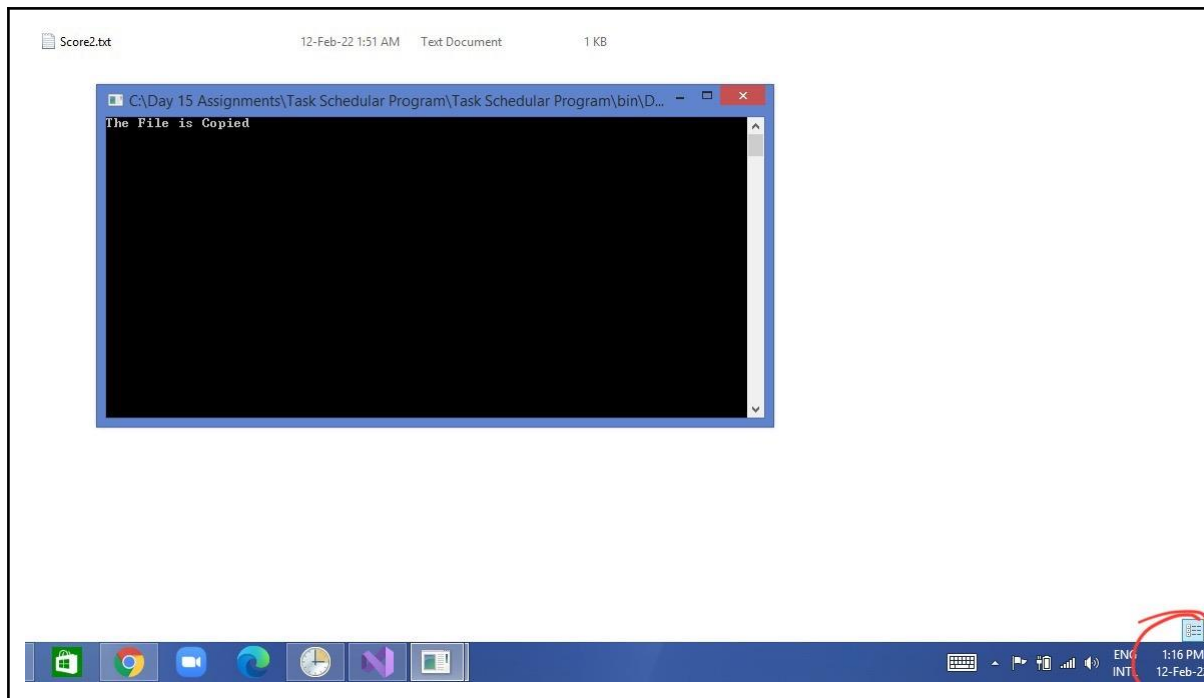

Create Task

General | Triggers | **Actions** | Conditions | Settings

When you create a task, you must specify the action that will occur when your task starts.

Action	Details
Start a program	"C:\Day 15 Assignments\Task Schedular Program\Task Schedular Program

[New...]   [Edit...]   [Delete]

[OK]   [Cancel]

3. WAC to write data into file (and append the data) using Stream writer class.
Code :

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_3
{
    // Author : Praveen Chakravarthi
    // Purpose : Appending the Data using StreamWriter Class
    internal class Program
    {
        static void Main(string[] args)
        {
            StreamWriter sw = new StreamWriter("C:\\Day 15 Assignments\\Day 15 Project
3\\C#.txt", true);
            sw.WriteLine("This is Praveen Chakravarthi");
            sw.WriteLine("We are Learning how to Append text in Files");
            sw.Close();
            Console.WriteLine("File Done");
            Console.ReadLine();
```

```
        }
    }
}
```

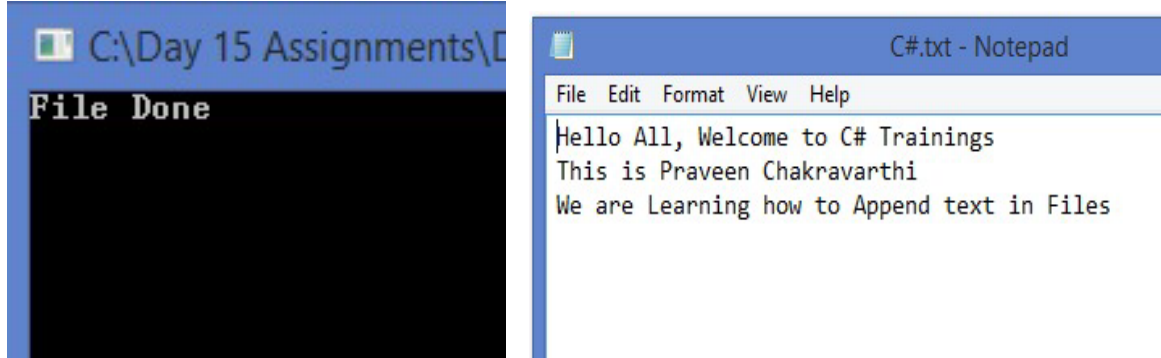## 4. Research and write C# program to read data from file

Code :

```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_4
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("The Content in the file is: ");
            Console.WriteLine(File.ReadAllText("C:\\Day 15 Assignments\\Day 15 Project
4\\Read.txt"));
            Console.ReadLine();
        }
    }
}
```

Output:

The Content in the file is:
Hi, This is a Test for ReadAllText

**5. Modify the quiz application to save the name and score in the flat file.
No need to display the score to end user**

Code :

```csharp
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace Day_15_Project_5
{
    // Author : Praveen Chakravarthi
    // Purpose : Storing Quiz Score in Flat File
    internal class Program
    {
        static void Main(string[] args)
        {

            int score = 0, ans;
            string name;

            // read from user

            Console.WriteLine("enter your name");
            name = Console.ReadLine();
            Console.WriteLine("****************************************");
            Console.WriteLine("Hi {0}, Welcome to Praveen's Quiz", name);
            Console.WriteLine("****************************************");

            Console.WriteLine("Q1. Who is the prime minister of india");
            Console.WriteLine("1.jk advani 2.Narendra Modi 3.Ramnath Kovind 4.KCR");
            Console.WriteLine("choose your option:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 2)
                score += 20;
```

```csharp
            else
                Console.WriteLine("Correct Answer is 2. Narendra Modi");
            Console.WriteLine("\n");

            Console.WriteLine("Q2. Who is the president of india");
            Console.WriteLine("1.sachin Tendulkar 2.Narendra Modi 3.Ramnath Kovind
4.KCR");
            Console.WriteLine("choose your option:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 3)
                score += 20;
            else
                Console.WriteLine("Correct Answer is 3. Ramnath Kovind");
            Console.WriteLine("\n");
            Console.WriteLine("Q3. Who has the record of highest test indivdual score");
            Console.WriteLine("1.sachin Tendulkar 2.V kohli 3.Don Bradman 4.Brain Lara");
            Console.WriteLine("choose your option:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 4)
                score += 20;
            else
                Console.WriteLine("Correct Answer is 4. Brain Lara");
            Console.WriteLine("\n");
            Console.WriteLine("Q4. Who is the chief Minister of New Delhi");
            Console.WriteLine("1.Arvind kejriwal 2.Narendra Modi 3.Ramnath Kovind 4.Amit
Shah");
            Console.WriteLine("choose your option:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 1)
                score += 20;
            else
                Console.WriteLine("Correct Answer is 1. Arvind Kejriwal");
            Console.WriteLine("\n");
            Console.WriteLine("Q1 Which city is called the city of lakes in india");
            Console.WriteLine("1.jaipur 2.bangalore 3.Udaipur 4.Hyderabad");
            Console.WriteLine("choose your option:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 3)
                score += 20;
            else
                Console.WriteLine("Correct Answer is 3. Udaipur");
            Console.WriteLine("\n");
            Console.WriteLine("CONGRATULATIONS {0}, You have Succesfully Completed
the Quiz \n\n Admin will let you know the Score", name);

            StreamWriter sw = new StreamWriter("C:\\Day 15 Assignments\\Score.txt", true);
            sw.WriteLine($"Hi {name} Your Quiz Score is {score}");
            sw.Close();

            Console.ReadLine();
```

```
        }
      }
    }
```

Output :


```
C:\Praveen Chakravarthi Projects\DAY 15 Assignments\Day 15 Project 5\Day 15 .

enter your name
Praveen
**********************************************
Hi Praveen, Welcome to Praveen's Quiz
**********************************************
Q1. Who is the prime minister of india
1.jk advani 2.Narendra Modi 3.Ramnath Kovind 4.KCR
choose your option:
2


Q2. Who is the president of india
1.sachin Tendulkar 2.Narendra Modi 3.Ramnath Kovind 4.KCR
choose your option:
3


Q3. Who has the record of highest test indivdual score
1.sachin Tendulkar 2.V kohli 3.Don Bradman 4.Brain Lara
choose your option:
4


Q4. Who is the chief Minister of New Delhi
1.Arvind kejriwal 2.Narendra Modi 3.Ramnath Kovind 4.Amit Shah
choose your option:
1


Q1 Which city is called the city of lakes in india
1.jaipur 2.bangalore 3.Udaipur 4.Hyderabad
choose your option:
3


CONGRATULATIONS Praveen, You have Succesfully Completed the Quiz

 Admin will let you know the Score
```

```
Score.txt - Notepad

File  Edit  Format  View  Help

Hi Praveen Your Quiz Score is 60
Hi Chakravarthi Your Quiz Score is 100
Hi Arun Your Quiz Score is 100
Hi Arun Your Quiz Score is 20
Hi Praveen  Your Quiz Score is 40
Hi Praveen Your Quiz Score is 100
```