NB Healthcare Technologies Pvt Ltd

Day 15 Morning Assignment (11 – Feb- 2022)
By
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1. Research and write atleast 10 methods present in
File Class. Illustrate with code example.

Code: 1. Creating a File

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Create("E:\\Hello.txt");
            Console.WriteLine("File Created");


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

Output:

```
File Created

```

2.Writing/Overriding into the file:

```
Program.cs    ⊞ ✕
Day15Project1                                    ▼  Day15Project1.Program                              ▼
   1    using System;
   2    using System.IO;
   3    using System.Collections.Generic;
   4    using System.Linq;
   5    using System.Text;
   6    using System.Threading.Tasks;
   7
   8    namespace Day15Project1
   9    {
             0 references
  10        internal class Program
  11        {
                 0 references
  12            static void Main(string[] args)
  13            {
  14
  15                StreamWriter sw = new StreamWriter("E:\\Hello.txt");
  16                sw.WriteLine("Hi");
  17                sw.WriteLine("This file is created by vamsi krishna");
  18                sw.Close();
  19                Console.WriteLine("Writing into the file was done");
  20
  21                Console.ReadLine();
  22            }
  23        }
  24    }
  25
```

Output:

```
Writing into the file was done

```

3.Append into the file

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            StreamWriter sw = new StreamWriter("E:\\Hello.txt",true);
            sw.WriteLine("Nb Healthcare Technologies pvt ltd");
            sw.Close();
            Console.WriteLine("Append into the file was done");

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

Output:

D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Day15Project1\Day15Project1\bin\Debug\Day15Project1.exe

```
Append into the file was done
```

4. File Copy

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            File.Copy("E:\\Files\\Hello.txt", "E:\\Server\\Hello.txt");
            Console.WriteLine("File Copy Done");

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

Output:

```
File Copy Done
```

5.Get Last Write Time Of The File

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine(File.GetLastWriteTime("E:\\Files\\Hello.txt"));
            Console.WriteLine("File GetLastWriteTime was Done");

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

Output:

```
13-02-2022 07:59:53
File GetLastWriteTime was Done
```

6.Moving a File

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Move("E:\\Files\\Hello.txt", ("E:\\Server\\Hello.txt"));
            Console.WriteLine("Moving a File Done");

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

Output:

```
Moving a File Done
```

7.Deleting a File

Code:

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Delete("E:\\Server\\Hello.txt");
            Console.WriteLine("Deleting a File Done");


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

Output:

```
Deleting a File Done
```

8.Existance of a File

Code:

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {


            if (File.Exists("E:\\Files\\Hello.txt"))
            {
                Console.WriteLine("The file exists.");
```

```
        }
        else
        {
            Console.WriteLine("The File Does not exit");
        }

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

Output:

```
The file exists.
```

After File Deletion

```
The File Does not exit
```

9.Get Last Creation Time

Code:

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {

            Console.WriteLine(File.GetCreationTime("E:\\Files\\Hello.txt"));
            Console.ReadLine();
        }
    }
}
```

Output:

```
13-02-2022 13:10:14
```

10. File Created Time and File Reading

Code

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("File Created Time:");

Console.WriteLine(File.GetCreationTime("E:\\Files\\Hello.txt"));
            StreamReader sr = new
StreamReader("E:\\Files\\Hello.txt");
            string data = sr.ReadLine();

            while(data != null)
            {
                Console.WriteLine(data);
                data = sr.ReadLine();
            }
            Console.WriteLine("/************** File Reading
Done *****************/");
            Console.ReadLine();
        }
    }
}
```
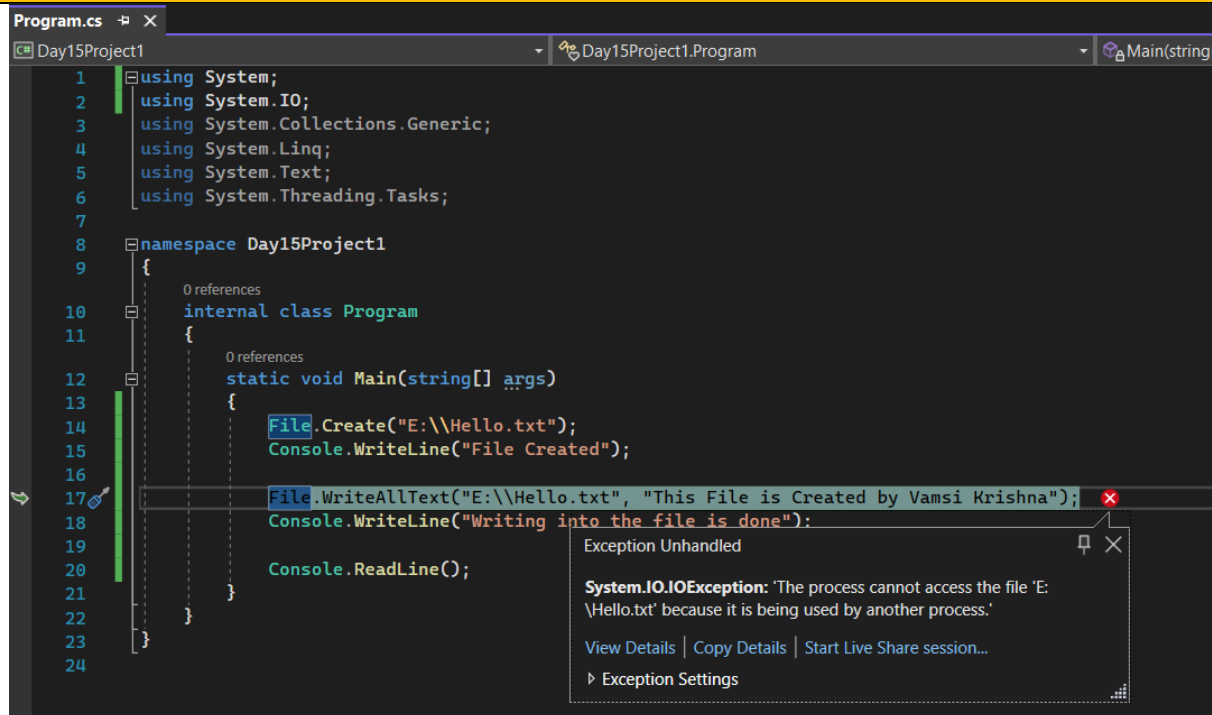
Output:

D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Day15Project1\Day15Project1\bin\Debug\Day15Project1.exe

```
File Created Time:13-02-2022 13:10:14
Hi
This file is created by vamsi krishna
Nb Healthcare Technologies pvt ltd
/************** File Reading Done *****************/
```

```
Program.cs  ⊕ ×
C# Day15Project1                                          ⊸ ⚛ Day15Project1.Program                                      ⊸ ⚛ Main(string)
     1    using System;
     2    using System.IO;
     3    using System.Collections.Generic;
     4    using System.Linq;
     5    using System.Text;
     6    using System.Threading.Tasks;
     7
     8    namespace Day15Project1
     9    {
              0 references
    10        internal class Program
    11        {
                  0 references
    12            static void Main(string[] args)
    13            {
    14                File.Create("E:\\Hello.txt");
    15                Console.WriteLine("File Created");
    16
    17                File.WriteAllText("E:\\Hello.txt", "This File is Created by Vamsi Krishna");    ⊗
    18                Console.WriteLine("Writing into the file is done");
    19                                              Exception Unhandled                           📌 ✕
    20                Console.ReadLine();
    21            }                                 System.IO.IOException: 'The process cannot access the file 'E:
    22        }                                     \Hello.txt' because it is being used by another process.'
    23    }
    24                                              View Details | Copy Details | Start Live Share session...
                                                   ▷ Exception Settings
```
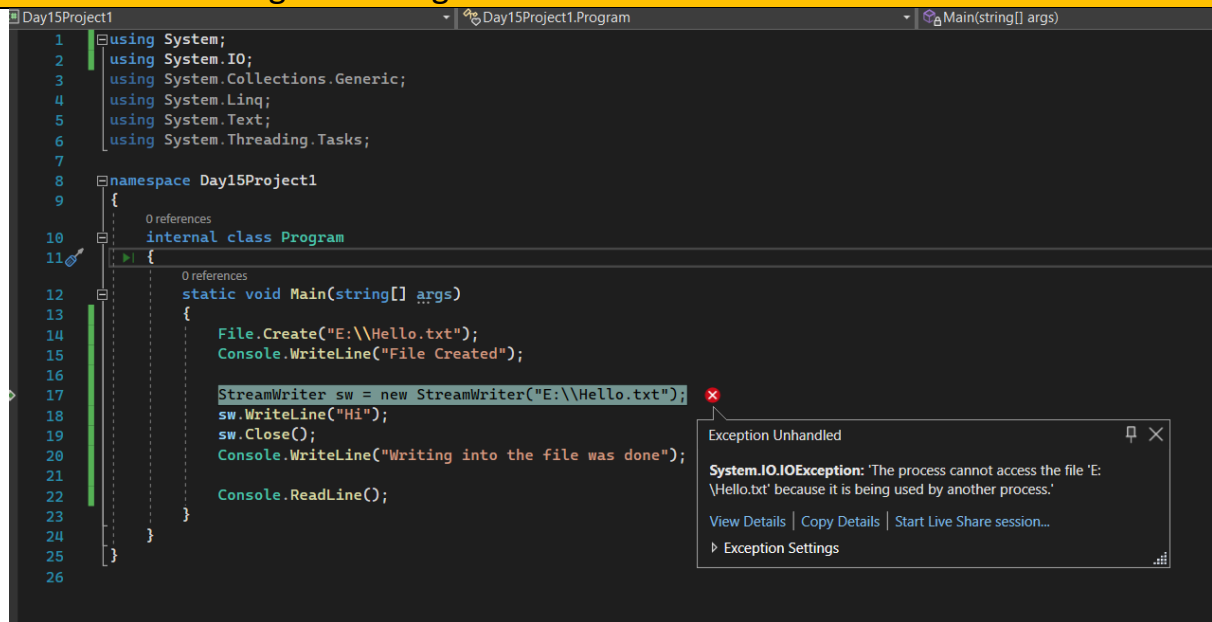
```
▪ Day15Project1                                  ⊸ ⚛ Day15Project1.Program                              ⊸ ⚛ Main(string[] args)
     1    using System;
     2    using System.IO;
     3    using System.Collections.Generic;
     4    using System.Linq;
     5    using System.Text;
     6    using System.Threading.Tasks;
     7
     8    namespace Day15Project1
     9    {
              0 references
    10        internal class Program
    11        {
                  0 references
    12            static void Main(string[] args)
    13            {
    14                File.Create("E:\\Hello.txt");
    15                Console.WriteLine("File Created");
    16
    17                StreamWriter sw = new StreamWriter("E:\\Hello.txt");   ⊗
    18                sw.WriteLine("Hi");
    19                sw.Close();                        Exception Unhandled                          📌 ✕
    20                Console.WriteLine("Writing into the file was done");
    21                                                   System.IO.IOException: 'The process cannot access the file 'E:
    22                Console.ReadLine();                \Hello.txt' because it is being used by another process.'
    23            }
    24        }                                          View Details | Copy Details | Start Live Share session...
    25    }                                              ▷ Exception Settings
    26
```

2. WACP to copy files from one folder to other folder.
   Schedule this job to be executed at daily some time.

   put the screen shot of task scheduler.

Code:

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

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            File.Copy("E:\\Files\\Hello.txt", "E:\\Server\\Hello.txt");
            Console.WriteLine("File Copy Done");

            Console.ReadLine();

        }
    }
}
```

Output:

D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Day15Project1\Day15Project1\bin\Debug\Day15Project1.exe

```
File Copy Done
```

Task Scheduler

General

Create Task ✕

General | Triggers | Actions | Conditions | Settings

Name: File Copy

Location: \

Author: LAPTOP-MQ6C7LAA\vamsi krishna

Description: Copy a File Daily at 3:50PM

Security options

When running the task, use the following user account:

LAPTOP-MQ6C7LAA\vamsi krishna   Change User or Group...

◉ Run only when user is logged on

○ Run whether user is logged on or not

☐ Do not store password. The task will only have access to local computer resources.

☐ Run with highest privileges

☐ Hidden   Configure for: Windows Vista™, Windows Server™ 2008

OK   Cancel

Triggers

Create Task ✕

General **Triggers** Actions Conditions Settings

When you create a task, you can specify the conditions that will trigger the task.

Trigger	Details	Status
Daily	At 15:50 every day	Enabled

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

[OK] [Cancel]

Actions

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	"D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Da

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

[OK] [Cancel]

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

Code:

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

namespace Day15Project2
{
    internal class Program
    {
        static void Main(string[] args)
        {
            StreamWriter sw = new StreamWriter("E:\\Files\\Hello.txt",true);
            sw.WriteLine("Nations Benefits => NB Healthcare Technologies");
            sw.Close();

            Console.WriteLine("Written in File Done");
            Console.WriteLine("Append in a file is Done");


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

Output:

Written/Override

D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Day15Project2\Day15Project2\bin\Debug\Day15Project2.exe

```
Written in File Done
```

Append

D:\NB HealthCare Training\DotNet Projects\Day 15 Morning Assignment\Day15Project2\Day15Project2\bin\Debug\Day15Project2.exe

```
Written in File Done
Append in a file is Done
```

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

Code:

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

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.Write("File Created Time:");

Console.WriteLine(File.GetCreationTime("E:\\Files\\Hello.txt"));
            StreamReader sr = new
StreamReader("E:\\Files\\Hello.txt");
            string data = sr.ReadLine();

            while(data != null)
            {
                Console.WriteLine(data);
                data = sr.ReadLine();
            }
            Console.WriteLine("/************* File Reading
Done ****************/");
            Console.ReadLine();
        }
    }
}
```

Output:

```
File Created Time:13-02-2022 13:10:14
Hi
This file is created by vamsi krishna
Nb Healthcare Technologies pvt ltd
/************* File Reading Done *****************/
```

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

namespace Day15Project3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int score = 0, ans;
            string name;

            Console.WriteLine("Enter Your Name:");
            name = Console.ReadLine();


Console.WriteLine("***************************************************");
            Console.WriteLine("Hi {0}, Welcome to Quiz By Vamsi", name);

Console.WriteLine("***************************************************");

            Console.WriteLine("Q1. What is the capital of Andhra Pradesh:");
            Console.WriteLine("1.Amaravati 2.Vizag 3.Kurnool 4.Guntur");
            Console.WriteLine("Enter Your Choice:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 1)
                score += 20;

            Console.WriteLine("Q2. Who is the CEO of Microsoft:");
            Console.WriteLine("1.Bill Gates 2.Sundar Pichai 3.Satya Nadella
4.Brian Humphries");
            Console.WriteLine("Enter Your Choice:");
```

```csharp
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 3)
                score += 20;

            Console.WriteLine("Q3. Who is the CEO of Alphabet:");
            Console.WriteLine("1.Bill Gates 2.Sundar Pichai 3.Satya Nadella
4.Brian Humphries");
            Console.WriteLine("Enter Your Choice:");
            ans = Convert.ToInt32(Console.ReadLine());

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

            Console.WriteLine("Q4. Who is the CEO of Cognizant:");
            Console.WriteLine("1.Bill Gates 2.Julie Sweet 3.Satya Nadella
4.Brian Humphries");
            Console.WriteLine("Enter Your Choice:");
            ans = Convert.ToInt32(Console.ReadLine());

            if (ans == 4)
                score += 20;

            Console.WriteLine("Q5. Who is the CEO of Nations Benefits:");
            Console.WriteLine("1.Michael Parker 2.Glenn Parker 3.Julie Sweet
4.Brian Humphries");
            Console.WriteLine("Enter Your Choice:");
            ans = Convert.ToInt32(Console.ReadLine());

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

            StreamWriter sw = new StreamWriter("E:\\Files\\Hello.txt");

            sw.WriteLine("Name : {0}, Score : {1}", name, score);
            sw.Close();

            Console.WriteLine("Your Results are stored in our Database, and
Admin will Let You Know The score");

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

Output:

```
Enter Your Name:
Vamsi Krishna
**************************************************
Hi Vamsi Krishna, Welcome to Quiz By Vamsi
**************************************************
Q1. What is the capital of Andhra Pradesh:
1.Amaravati 2.Vizag 3.Kurnool 4.Guntur
Enter Your Choice:
1
Q2. Who is the CEO of Microsoft:
1.Bill Gates 2.Sundar Pichai 3.Satya Nadella 4.Brian Humphries
Enter Your Choice:
3
Q3. Who is the CEO of Alphabet:
1.Bill Gates 2.Sundar Pichai 3.Satya Nadella 4.Brian Humphries
Enter Your Choice:
2
Q4. Who is the CEO of Cognizant:
1.Bill Gates 2.Julie Sweet 3.Satya Nadella 4.Brian Humphries
Enter Your Choice:
4
Q5. Who is the CEO of Nations Benefits:
1.Michael Parker 2.Glenn Parker 3.Julie Sweet 4.Brian Humphries
Enter Your Choice:
2
Your Results are stored in our Database, and Admin will Let You Know The score
```

Flat File

Hello - Notepad

File   Edit   Format   View   Help

Name : Vamsi Krishna, Score : 100