Day 15 - Assignment

By Manoj Karnatapu - NBHealthCareTechnologies

Assignment 1

Write a C# Code with at least 10 methods, in File Operations.

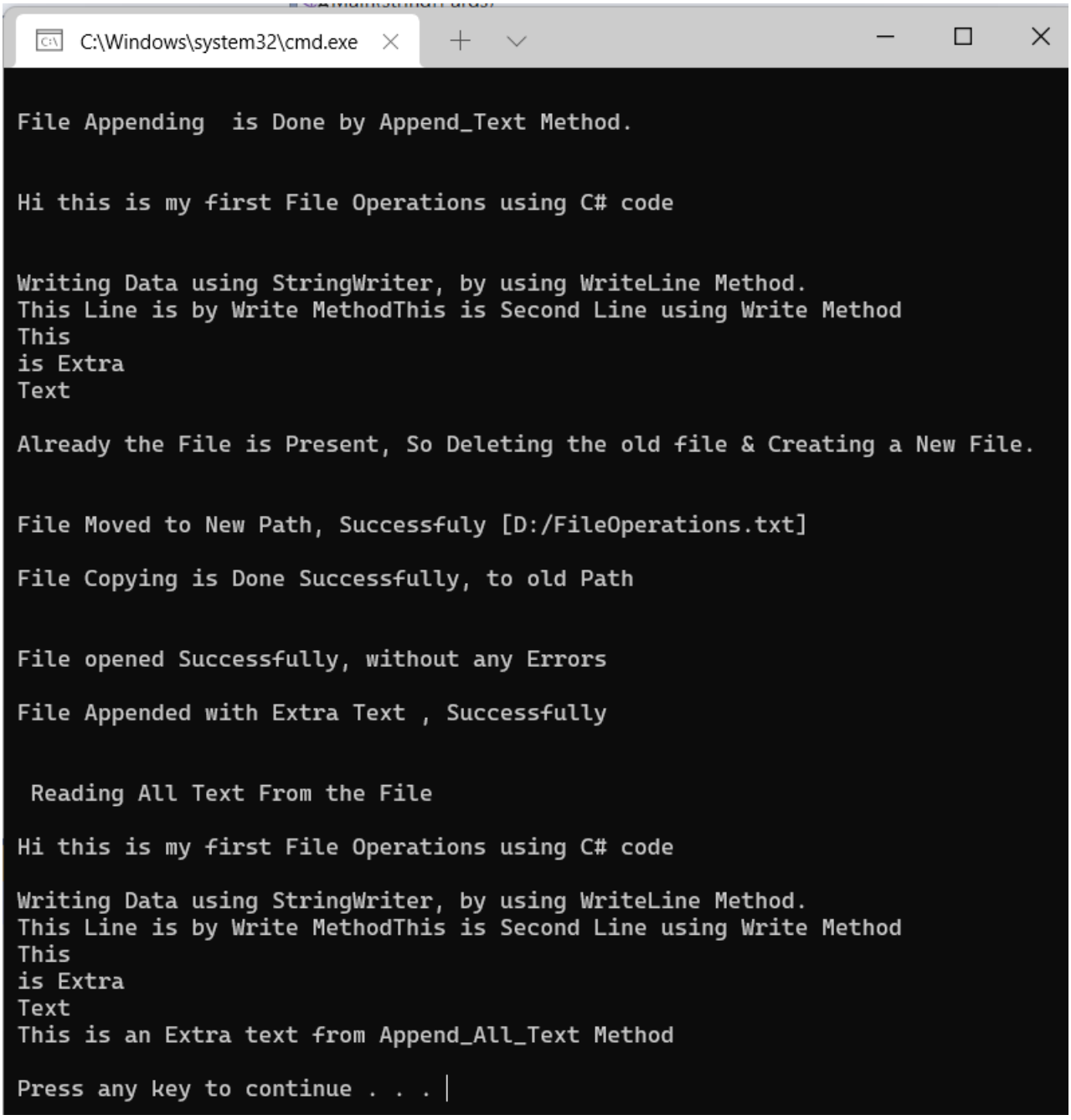
Answer

Code

```
using System;
using System.IO;
using System.Text;

// Author : Manoj.Karnatapu
// Purpose : File Operations Using atleast 10 Methods.

// For Reference, Check Day15Project1 in the same Repository.

namespace Day15Project1
{
    internal class Program
    {
        static void Main(string[] args)
        {
            // Assigning a File Path using Verbatim String Manipulation method.
            string fileName = @"D:\C#\GitHub\FileOperations.txt";

            // Creating a File with Given File Path
            StreamWriter sw = File.CreateText(fileName);

            // When we Use WriteLine Method in StreamWriter class,
            // It will Write in New Line each time it is called.
            sw.WriteLine("Hi this is my first File Operations using C# code");

            // The below statement is to have an empty line break in the file.
            sw.WriteLine("");
            sw.WriteLine("Writing Data using StringWriter, by using WriteLine Method.");

            // When We Use Write Method in StreamWriter Class,
            // it will start from the place of Cursor Exits after the last update, If
Any.
            sw.Write("This Line is by Write Method");
            sw.Write("This is Second Line using Write Method\n");
            sw.Close();

            // Appending a Text
            sw = File.AppendText(fileName);
            sw.WriteLine("This");
            sw.WriteLine("is Extra");
            sw.WriteLine("Text");
            Console.WriteLine("\nFile Appending  is Done by Append_Text Method.");
            // We Need to Close the File, When ever we Create/open/Read a File, in file
Operations.
            sw.Close();
```

```
            // Reading a File Using OpenText() Method
            StreamReader sr = File.OpenText(fileName);
            string s;
            Console.WriteLine("\n");
            while ((s = sr.ReadLine()) != null)
                Console.WriteLine(s);

            sr.Close();


            string fileNewPath = @"D:\FileOperations.txt";
            // Moving a File From One Path to Another Path
            if(File.Exists(fileNewPath))
                File.Delete(fileNewPath);
            Console.WriteLine("\nAlready the File is Present, So Deleting the old file &
Creating a New File.");

            File.Move(fileName, fileNewPath);
            Console.WriteLine("\nFile Moved to New Path, Successfuly
[D:/FileOperations.txt]");

            // Copying the File From NewPAth to Old path to make a Duplicate.
            /*if (File.Exists(fileName))
                File.Delete(fileName);
            Console.WriteLine("\nAlready the File is Present, So Deleting the old file &
Creating a New File.");*/

            File.Copy(fileNewPath, fileName);
            Console.WriteLine("\nFile Copying is Done Successfully, to old Path\n");

            // Opening a Text File
            File.OpenText(fileName).Close();
            Console.WriteLine("\nFile opened Successfully, without any Errors");
            string appendText = "This is an Extra text from Append_All_Text Method";
            File.AppendAllText(fileName, appendText, Encoding.UTF8);

            Console.WriteLine("\nFile Appended with Extra Text , Successfully");

            string readText = File.ReadAllText(fileName);
            Console.WriteLine("\n\n Reading All Text From the File\n");
            Console.WriteLine(readText);

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

Output


C:\Windows\system32\cmd.exe
File Appending is Done by Append_Text Method.
Hi this is my first File Operations using C# code
Writing Data using StringWriter, by using WriteLine Method.
This Line is by Write MethodThis is Second Line using Write Method
This
is Extra
Text
Already the File is Present, So Deleting the old file & Creating a New File.
File Moved to New Path, Successfuly [D:/FileOperations.txt]
File Copying is Done Successfully, to old Path
File opened Successfully, without any Errors
File Appended with Extra Text , Successfully
Reading All Text From the File
Hi this is my first File Operations using C# code
Writing Data using StringWriter, by using WriteLine Method.
This Line is by Write MethodThis is Second Line using Write Method
This
is Extra
Text
This is an Extra text from Append_All_Text Method
Press any key to continue . . .

Assignment 2

Write a C# Code, to copy from one folder to another folder, by scheduling the job using Task Schedular in Windows OS.

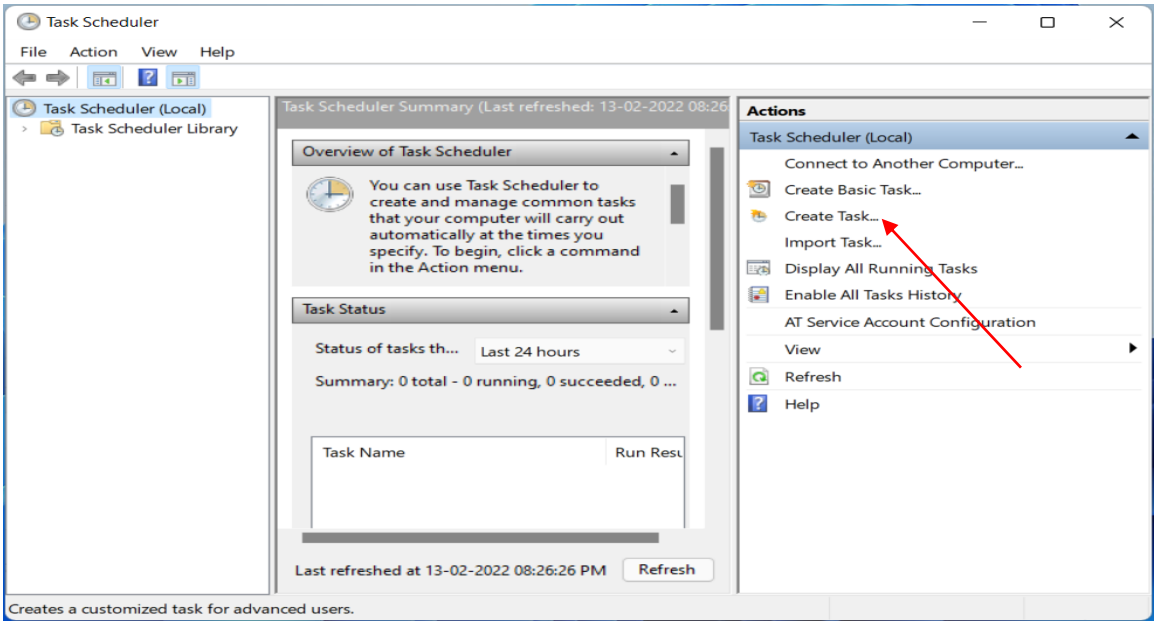
Code

```
using System;
using System.IO;

// Author : Manoj.Karnatapu
// Purpose : Write a C# Code, to copy from one folder to another folder, by scheduling the
job using Task Schedular in Windows OS.

// For Reference, Check Day15Project2 in the same Repository.
namespace Day15Project2
{
    internal class Program
    {
        static void Main(string[] args)
        {
            string filePath = @"D:\C#\GitHub\FileOperations.txt";

            string TaskSchedularPath = @"D:\C#\TaskSchedular\TaskSchedularPath.txt";
            if(File.Exists(TaskSchedularPath))
                File.Delete(TaskSchedularPath);

            File.Copy(filePath, TaskSchedularPath);

            Console.WriteLine("File Copying is Done");

            Console.ReadKey();
        }
    }
}
```

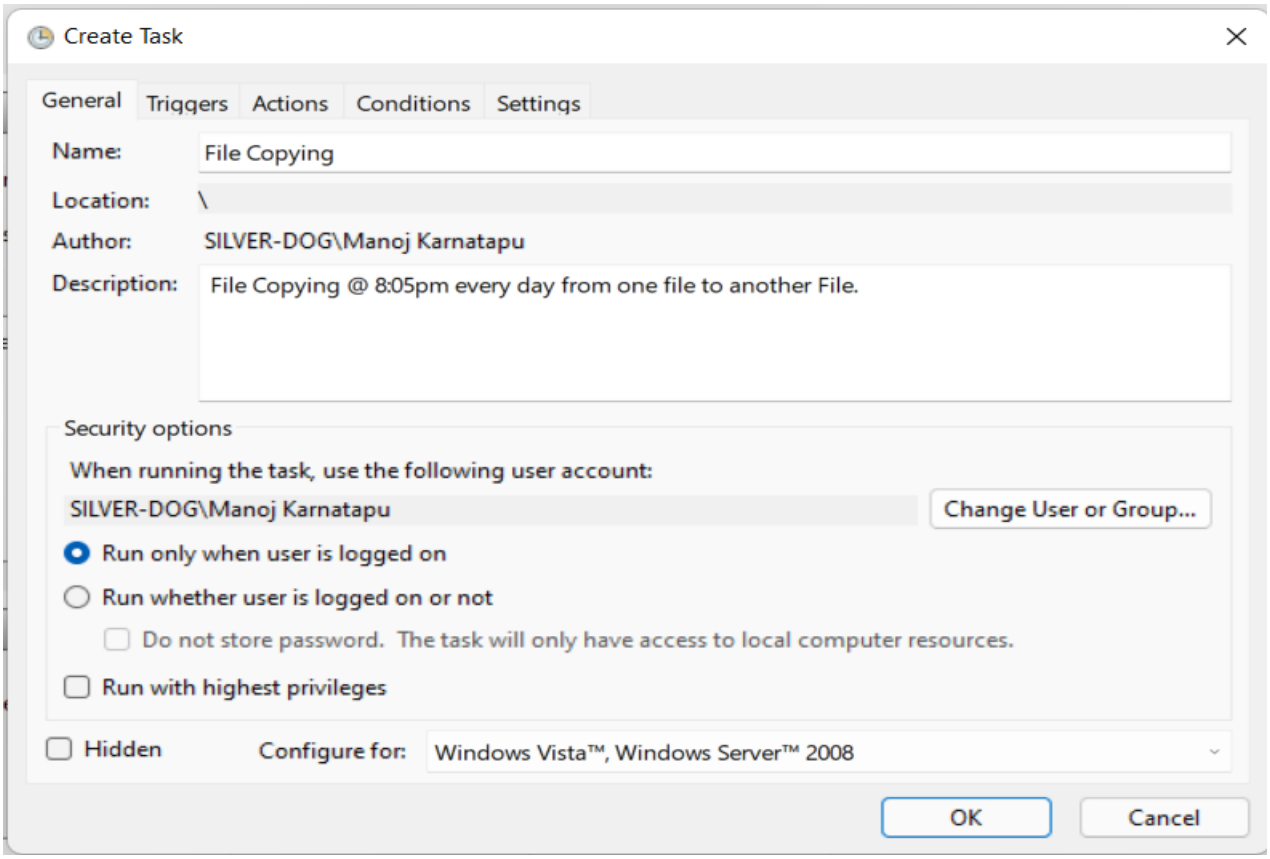
Output

(1). Open Task Schedular in Windows App Menu.

(2). Select “Create Task” Option from the Right-Side Menu.

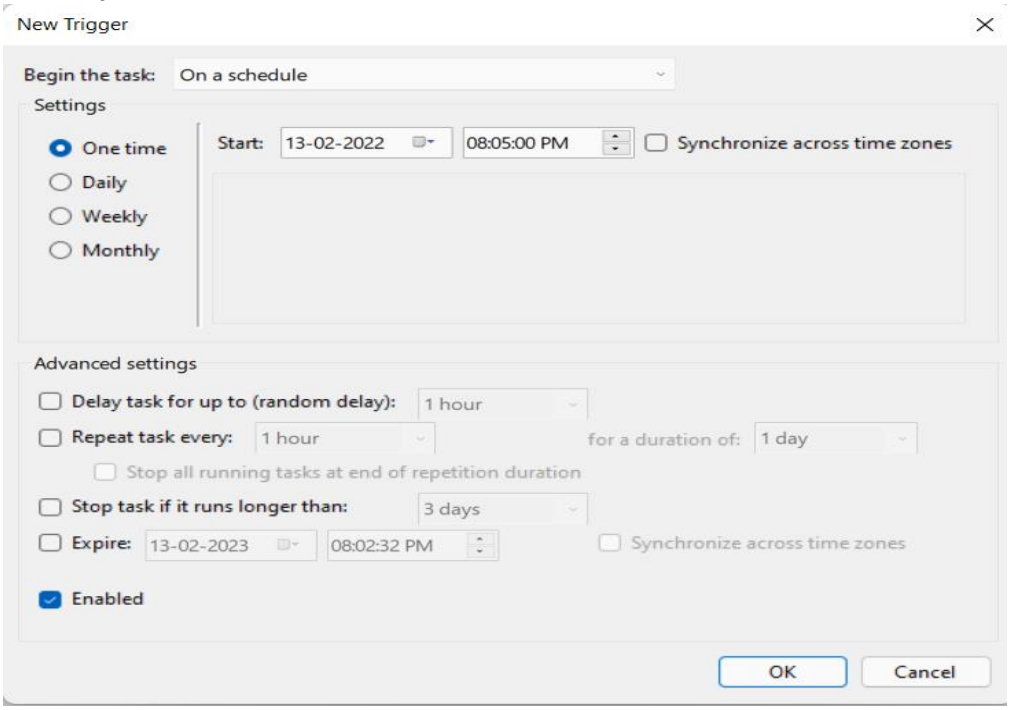


(3). Give Name as : File Copying & Description as : File Copying @ 8:05pm Everyday from one folder to another file/folder.

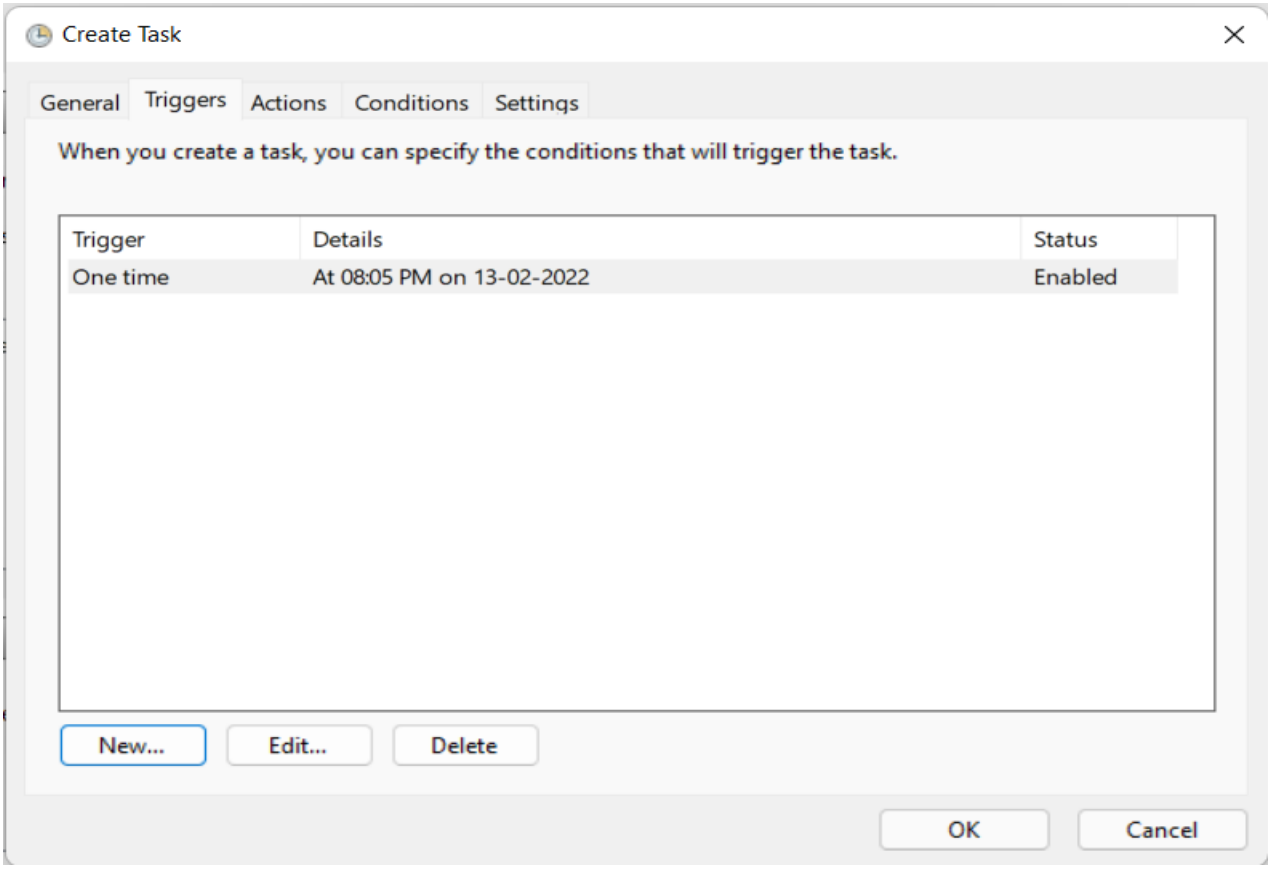


(4). Select Triggers Tab & choose Time and Date as per your choice.

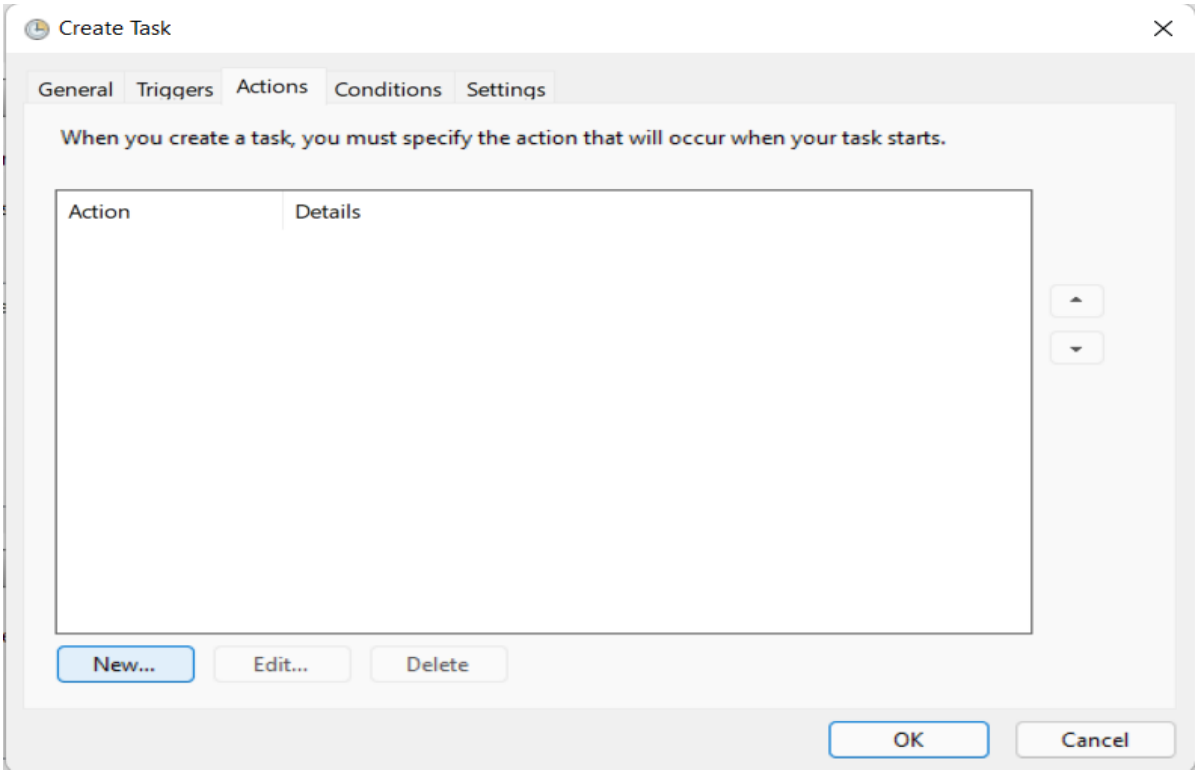
Select Daily in the Left-side Pane. (I chosen One Time as per my choice of running only once.) And Press "OK" button.



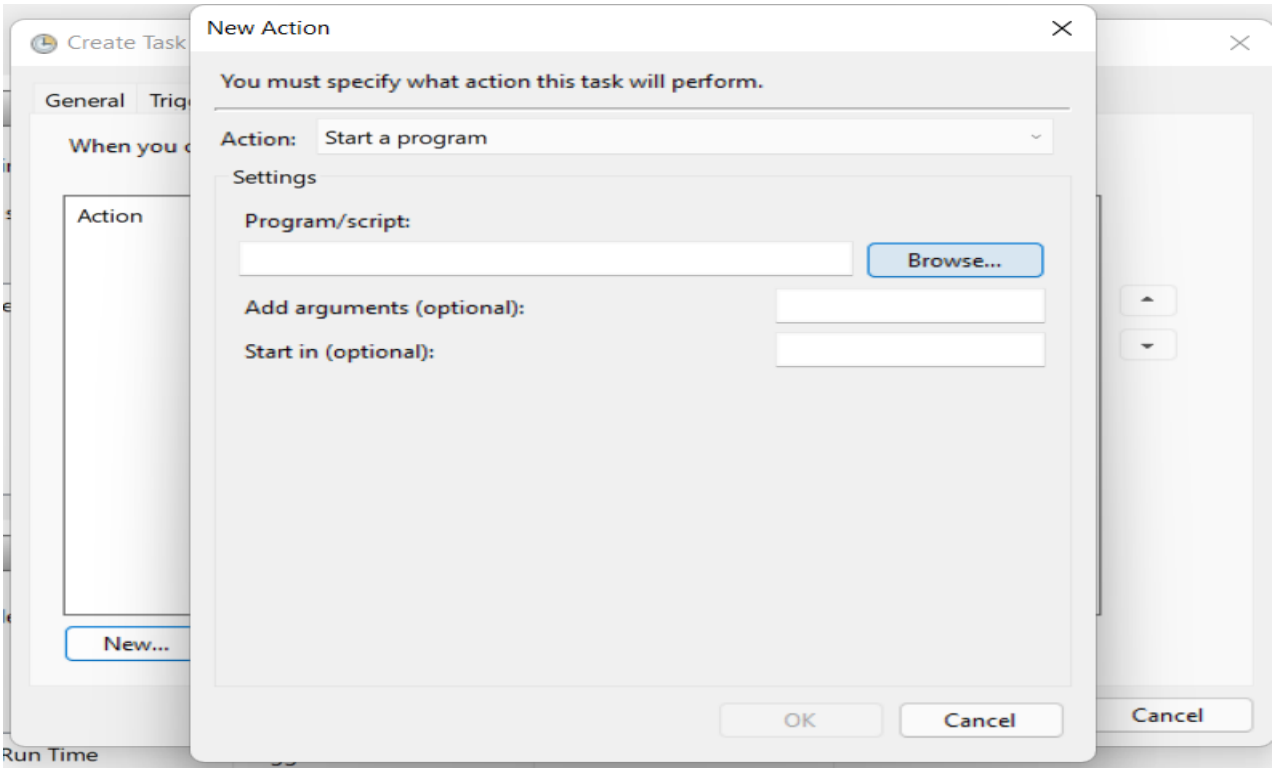
(5). Now the New Trigger is Created.



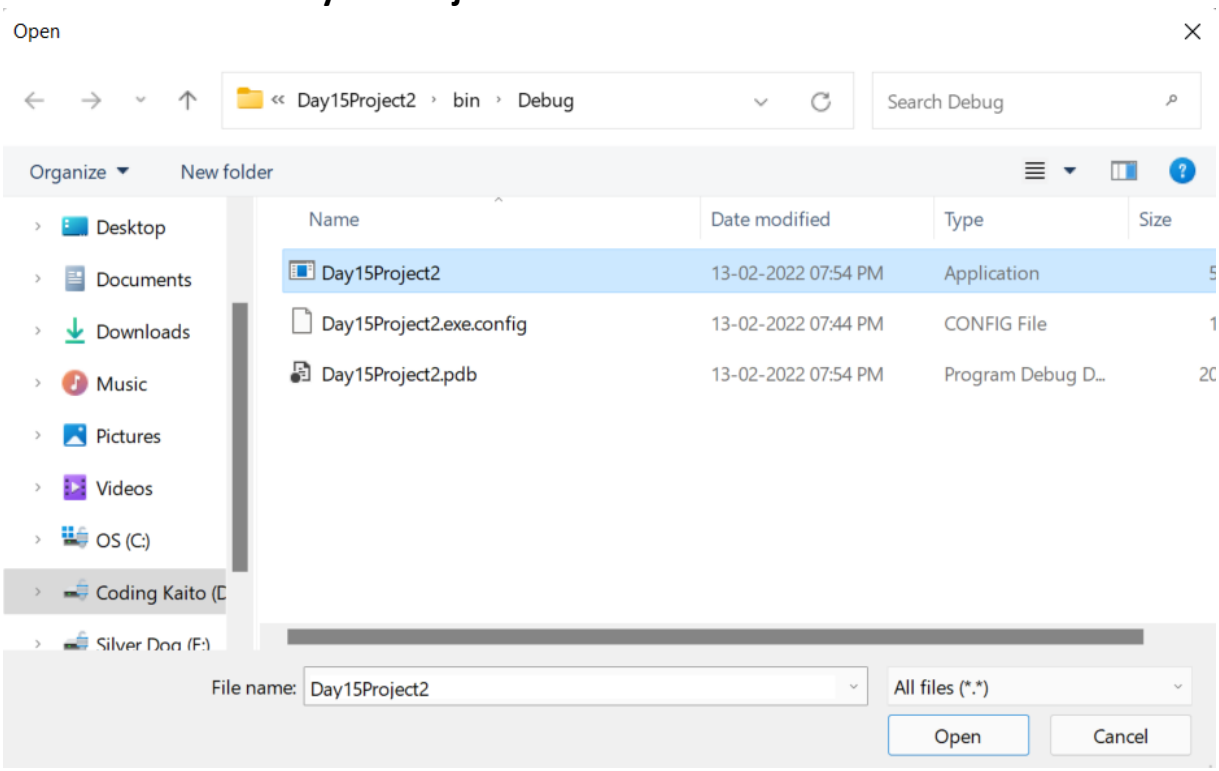
(6). Go To "Actions" Tab. Click on "New" to create an action to be trigged by the task schedular.



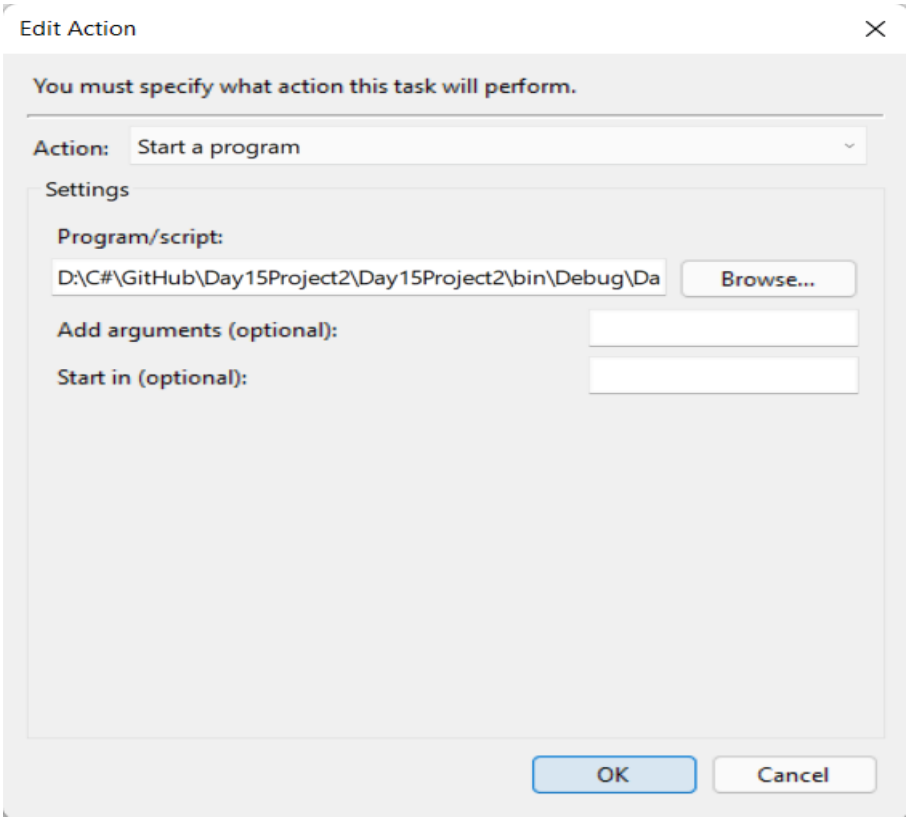
(7). Now Chose “Browse” button, to add the Exe file of Our Project Code to be executed by the task schedular on the given trigger time.



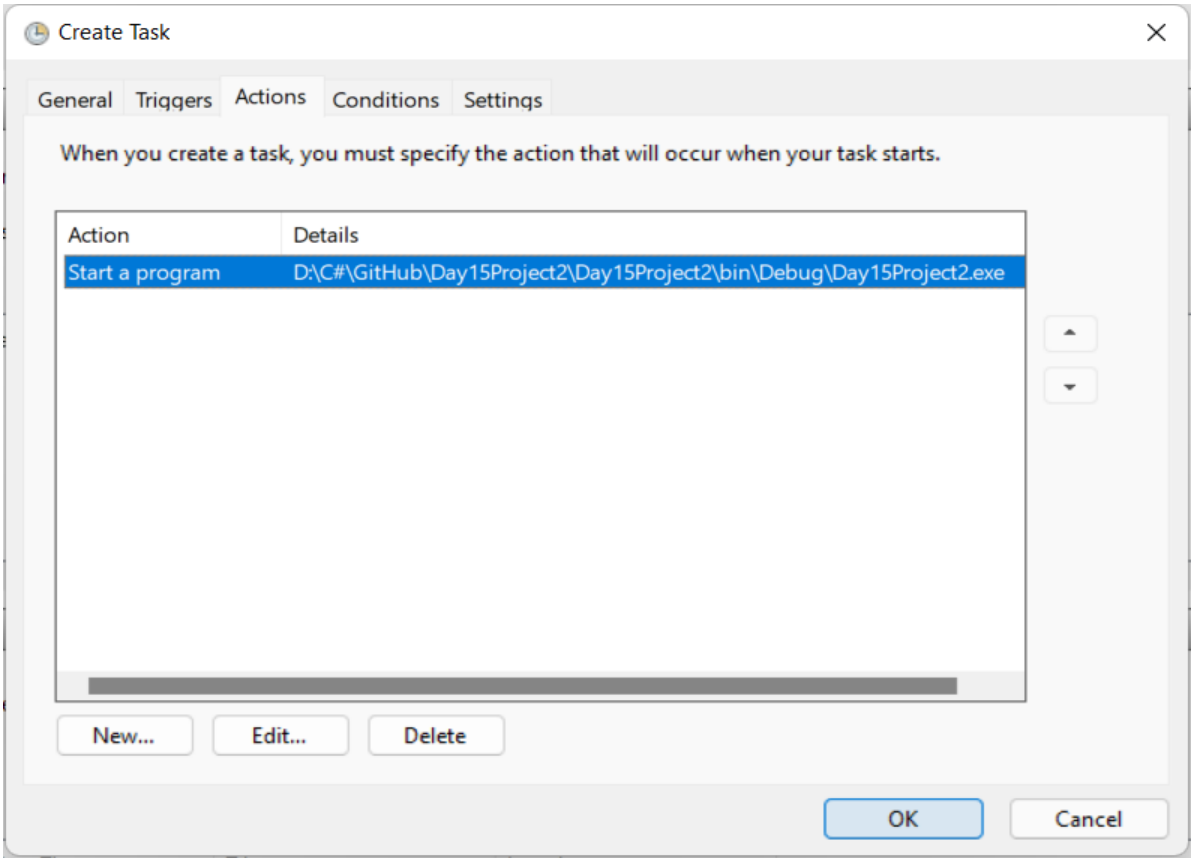
(8). Select the Exe file of your Project code Created when we Rebuild.



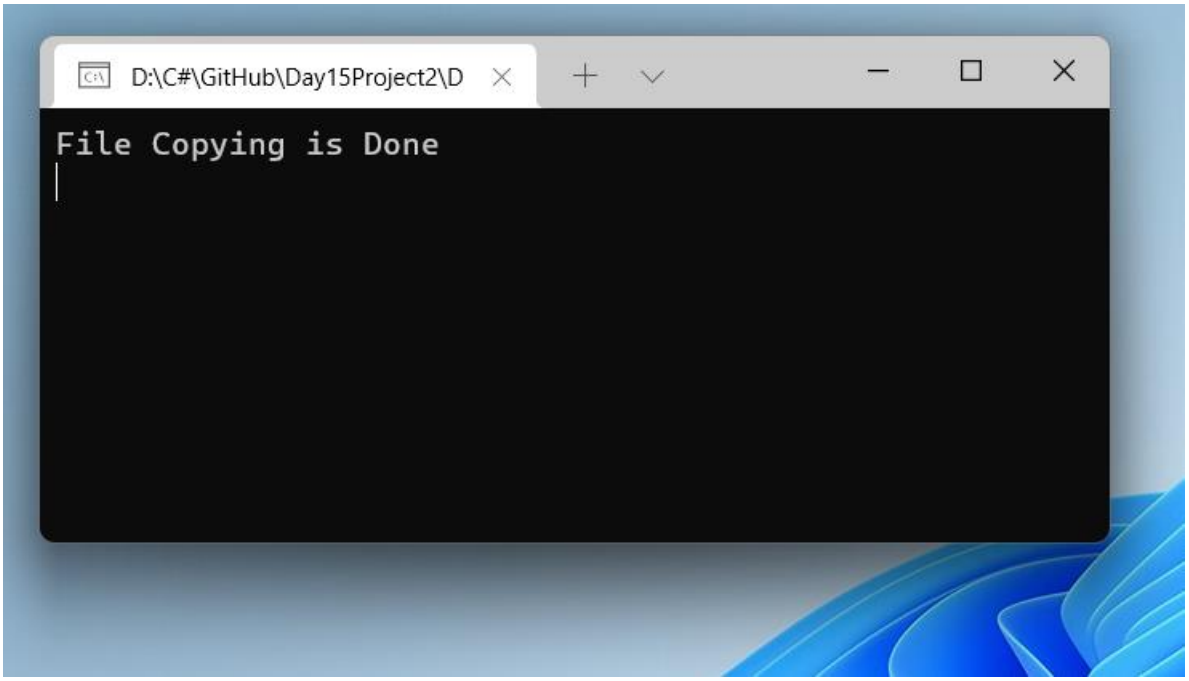
(9). Press “OK” Button When Selection of EXE file is Done.



(10). Final Step. Select the “OK” Button Which is Highlighted.



(11). Task Schedular is Scheduled, and When the timer Hits the trigged Value given in Step (4). The Output is Shown in the below image.



(12). Hence the Task Schedular Working Fine and Created a New file in the Given Location as per the Code Written.

Assignment 3

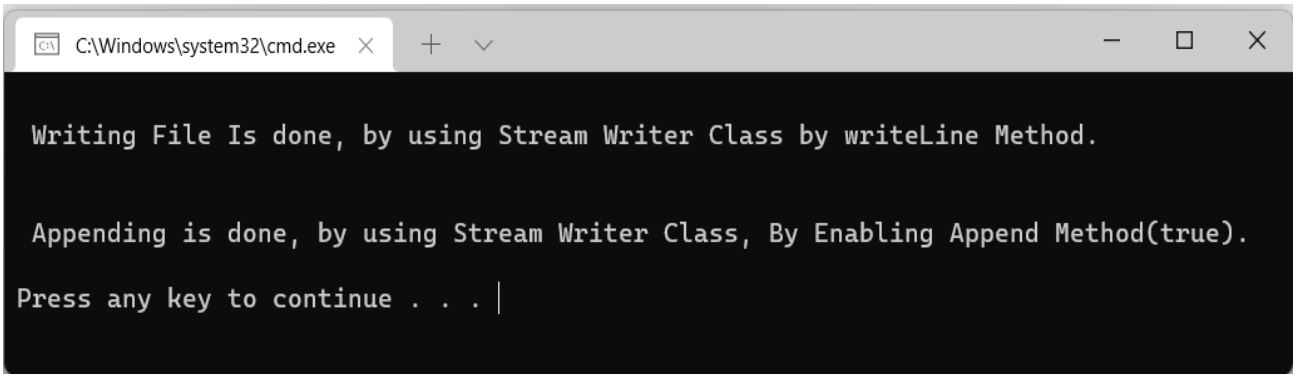
Write a C# Code, to write data into file/append the data Using Stream Writer Class.

Code

```
using System;
using System.IO;

// Author : Manoj.Karnatapu
// Purpose : Write a C# Code, to write data into file/append the data Using Stream Writer
Class.

// For Reference, Check Day15Project3 in the same Repository.

namespace Day15Project3
{
    internal class Program
    {
        static void Main(string[] args)
        {
            // We are Creating a File using streamWriter Class. It will over Ride Each time
we run the code
            StreamWriter sw = new StreamWriter(@"D:\C#\GitHub\StreamWriterExample.txt");
            sw.WriteLine("Hi this is Manoj");
            sw.WriteLine("This is a File Operation using StreamWriter with WriteLine
Method");
            sw.Close();
            Console.WriteLine("\n Writing File Is done, by using Stream Writer Class by
writeLine Method.\n");
```

```
            // We are Creating a File using streamWriter Class. It will not over Ride Each
time when we run the code.
            // Instead it will Append the Text of Lines, Each time We Run the Code.
            StreamWriter writer = new
StreamWriter(@"D:\C#\GitHub\StreamWriterAppendExample.txt", true);

            writer.WriteLine("This is From New object of Stream Writer,");
            writer.WriteLine("using Append by assigning True, while creating object for
StreamWriter");
            writer.Close();
            Console.WriteLine("\n Appending is done, by using Stream Writer Class, By
Enabling Append Method(true).");

            Console.ReadKey();
        }
    }
}
```

Output



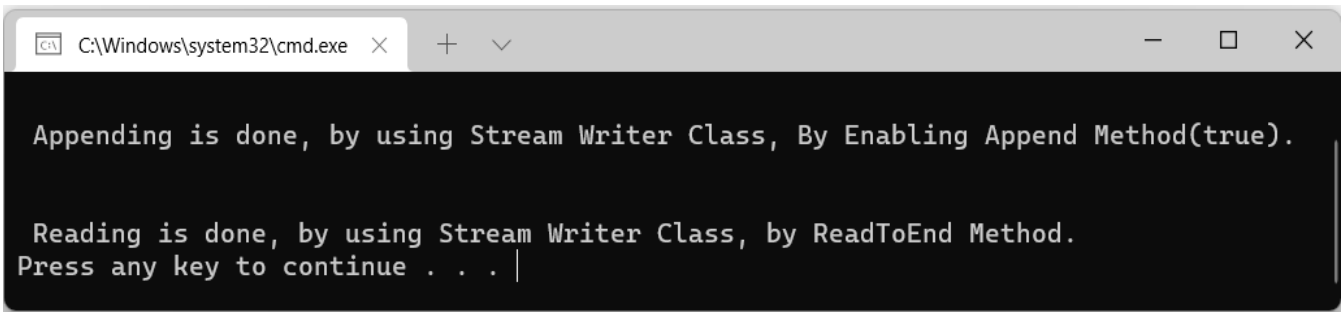
Assignment 4

Write a C# Code, To Read Data From a File, Using File Operations.

Code

```
using System;
using System.IO;

// Author : Manoj.Karnatapu
// Purpose : Write a C# Code, To Read Data From a File, Using File Operations by Stream
Writer Class.

// For Reference, Check Day15Project4 in the same Repository

namespace Day15Project4
{
    internal class Program
    {
        static void Main(string[] args)
        {
            // We are Creating a File using streamWriter Class. It will not over Ride Each
time when we run the code.
            // Instead it will Append the Text of Lines, Each time We Run the Code.
            StreamWriter writer = new
StreamWriter(@"D:\C#\GitHub\StreamWriterAppendExample.txt", true);

            writer.WriteLine("This is From New object of Stream Writer,");
            writer.WriteLine("using Append by assigning True, while creating object for
StreamWriter");

            writer.Close();
            Console.WriteLine("\n Appending is done, by using Stream Writer Class, By
Enabling Append Method(true).");

            // We Are Reading the File Content using Stream Writer Class From System.IO
namespace.
            StreamReader reader = new
StreamReader(@"D:\C#\GitHub\StreamWriterAppendExample.txt");

            reader.ReadToEnd();

            reader.Close();
            Console.WriteLine("\n Reading is done, by using Stream Writer Class, by
ReadToEnd Method.");

            Console.ReadKey();
        }
    }
}
```

Output



Assignment 5

Write a C# Code, for Quiz Application & store the Scores in Flat File.

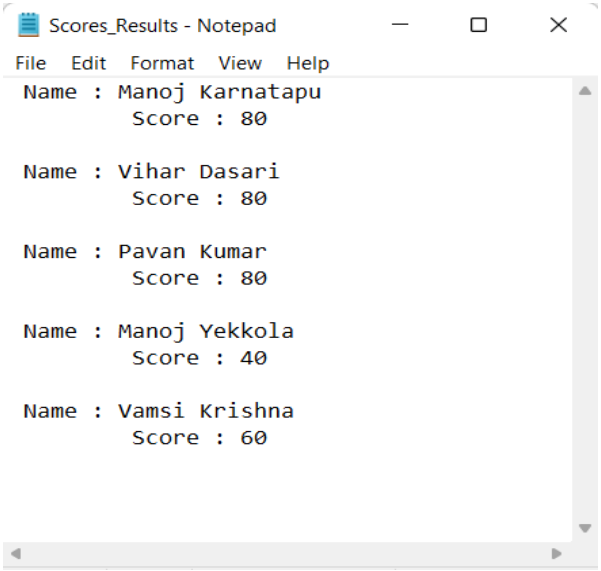
Code

```
using System;
using System.IO;

// Author : Manoj.Karnatapu
// Purpose : A C# Console Based Quiz Game Developed By Manoj Karnatapu. Storing Scores in a File using File Operations.

// For Reference, check Day15Project5 in the same repository.

namespace Day15Project5
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("\n\t\t\t ____::: Welcome To The Quiz Program By Manoj-Karnatapu  :::____\t\t\t\n");
            //Variable Declaration Section
            int score = 0, ans;
            string name;
            Console.Write("  Enter The Name Of The Participant :  ");
            name = Console.ReadLine();

Console.WriteLine("\n\n==========================================================================================================");
            Console.WriteLine($"\n\t\tHi {name}, You are About To begin The Quiz on Marvel Cinematic Universe\n");

Console.WriteLine("==========================================================================================\n");

            //Question No:1
            Console.WriteLine("\nQ1. Which is the First Movie To watch in Marvel's Cronological Order ?");
            Console.WriteLine("\n1. Captain America  2. Captain Marvel  3. IronMan  4. Hulk\n");
            Console.Write("\nEnter Your Answer :  ");
            ans = Convert.ToInt32(Console.ReadLine());

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

            //Question No:2
            Console.WriteLine("\n\nQ2. Who is the First Avenger in Marvel Series ?");
            Console.WriteLine("\n1. Captain Marvel 2. Captain America  3. IronMan  4. Hulk\n");
            Console.Write("\nEnter Your Answer :  ");
            ans = Convert.ToInt32(Console.ReadLine());

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

            //Question No:3
            Console.WriteLine("\n\nQ3. Currently We are in Which Phase of Marvel ?");
            Console.WriteLine("\n1. Phase-One 2. Phase-Three  3. Phase-Four  4. Phase-Two\n");
            Console.Write("\nEnter Your Answer :  ");
            ans = Convert.ToInt32(Console.ReadLine());

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

```
            //Question No:4
            Console.WriteLine("\n\nQ4. Which Physics Theory of Concept is Used in Ant-Man
Movie ?");
            Console.WriteLine("\n1. Pressure Theory 2. Quantum Physics  3. Big Bang  4.
Multiverse\n");
            Console.Write("\nEnter Your Answer :  ");
            ans = Convert.ToInt32(Console.ReadLine());

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

            //Question No:5
            Console.WriteLine("\n\nQ5. What was the Wi-Fi Password of Kamar-Taj in Doctor
Strange ?");
            Console.WriteLine("\n1. Infinite Stones 2. santum  3. Wenwuski  4.
Shamballa\n");
            Console.Write("\nEnter Your Answer :  ");
            ans = Convert.ToInt32(Console.ReadLine());

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

            StreamWriter sw = new StreamWriter(@"D:\C#\NBTraining\Day 15 Assignment by
Manoj.Karnatapu - 11 Feb 2022\Scores_Results.txt", true);
            sw.WriteLine(" Name : {0} \n\t Score : {1}\n", name, score);
            sw.Close();


Console.WriteLine("\n\n==========================================================================
==============================================\n");
            Console.WriteLine("\n\t  ____:::*** Congratulations, Your Scores got submitted
to the Admin ***:::____\n");

Console.WriteLine("\n==========================================================================
==============================================\n");

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

Output

Storing The Scores in the File, Using File Operations.




C:\Windows\system32\cmd.exe
____::: Welcome To The Quiz Program By Manoj-Karnatapu :::____
Enter The Name Of The Participant : Manoj Karnatapu
Hi Manoj Karnatapu, You are About To begin The Quiz on Marvel Cinematic Universe
Q1. Which is the First Movie To watch in Marvel's Cronological Order ?
1. Captain America 2. Captain Marvel 3. IronMan 4. Hulk
Enter Your Answer : 2
Q2. Who is the First Avenger in Marvel Series ?
1. Captain Marvel 2. Captain America 3. IronMan 4. Hulk
Enter Your Answer : 2
Q3. Currently We are in Which Phase of Marvel ?
1. Phase-One 2. Phase-Three 3. Phase-Four 4. Phase-Two
Enter Your Answer : 3
Q4. Which Physics Theory of Concept is Used in Ant-Man Movie ?
1. Pressure Theory 2. Quantum Physics 3. Big Bang 4. Multiverse
Enter Your Answer : 2
Q5. What was the Wi-Fi Password of Kamar-Taj in Doctor Strange ?
1. Infinite Stones 2. santum 3. Wenwuski 4. Shamballa
Enter Your Answer : 4
____:::*** Congratulations, Your Scores got submitted to the Admin ***:::____
Press any key to continue . . .

~~~~~~~~~~~~ THE END ~~~~~~~~~~~~
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