DAY 15 : Assignment By Vihar D.

Assignment 1

Write a C# code with at least 10 methods in file operations.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
namespace _10methods_file_ops
  internal class Program
    static void Main(string[] args)
      //Assigning a file path-----
       string filePath = @"C:\Users\vihar\Desktop\random\random.txt";
      //Creating a file-----
       StreamWriter sw = File.CreateText(filePath);
       sw.WriteLine("Hi, This is Vihar");
       sw.WriteLine("\nRandom Text !! (using WriteLine)");
       sw.Write("\nAnother random text !! (using Write)");
       sw.Write("\nContinued....");
       sw.Close();
      //Appending a text-----
       sw = File.AppendText(filePath);
       sw.Write("\nAppending");
       sw.Write("\nrandom");
```

```
sw.Write("\ntext message");
Console.WriteLine("\n File is appended");
sw.Close();
//Reading a file-----
StreamReader sr = File.OpenText(filePath);
string x;
Console.WriteLine("\n File reading");
while((x = sr.ReadLine()) != null)
  Console.WriteLine(x);
sr.Close();
string fileNewPath = @"C:\Assignments_NH_Vihar\Day 15\random.txt";
//Moving a file-----
if (File.Exists(fileNewPath))
  File.Delete(fileNewPath);
Console.WriteLine("\n deleting old path of text file...");
File.Move(filePath, fileNewPath);
Console.WriteLine("\n File path moved !");
//Copying a text file-----
File.Copy(fileNewPath, filePath);
Console.WriteLine("\n File copied !");
//Opening a text file-----
File.OpenText(filePath).Close();
Console.WriteLine("\n File opened without errors");
string appendText = "\n adding AppendAllText method";
File.AppendAllText(filePath, appendText, Encoding.UTF8);
Console.WriteLine("\n Extra text appended");
string readText = File.ReadAllText(filePath);
Console.WriteLine("\n Reading all text from text file");
Console.WriteLine(readText);
```

```
Console.ReadLine();

}
}
```

Output:

```
C:\WINDOWS\system32\cmd.exe
File is appended
File reading
Hi, This is Vihar
Random Text !! (using WriteLine)
Another random text !! (using Write)
Continued.....
Appending
random
text message
deleting old path of text file...
File path moved !
File copied !
File opened without errors
Extra text appended
Reading all text from text file
Hi, This is Vihar
Random Text !! (using WriteLine)
Another random text !! (using Write)
Continued.....
Appending
random
text message
adding AppendAllText method
```

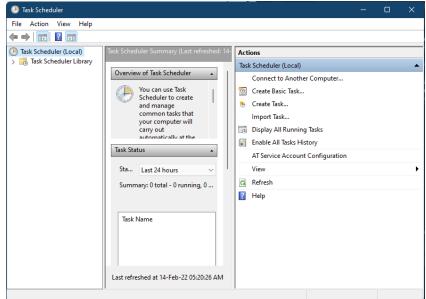
Write a C# code to copy from one folder to another by scheduling the job using Task Scheduler.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
namespace copy_task_scheduler
  internal class Program
    static void Main(string[] args)
       string filePath = @"C:\Assignments_NH_Vihar\Day 15\random.txt";
       string TaskSchedulerPath = @"C:\Assignments_NH_Vihar\Day 15\copy_folder\random.txt";
       if (File.Exists(TaskSchedulerPath))
         File.Delete(TaskSchedulerPath);
       File.Copy(filePath, TaskSchedulerPath);
       Console.WriteLine("\n File copied.!");
       Console.ReadKey();
```

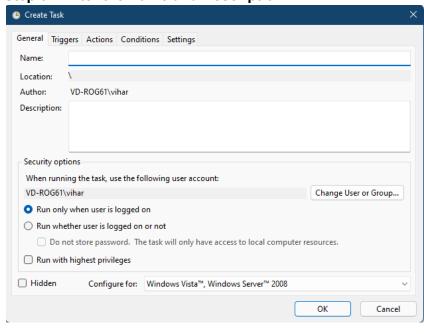
Output:

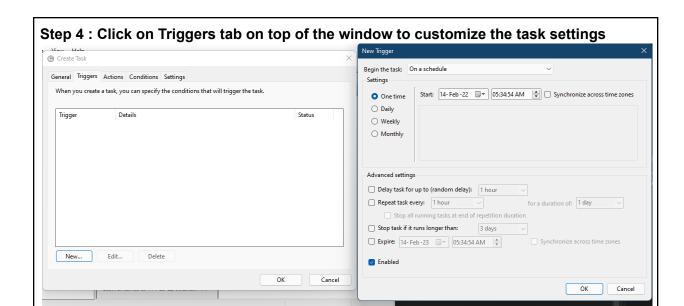
Step 1 : Open Task Scheduler from start.

Step 2 : click on " Create Task "

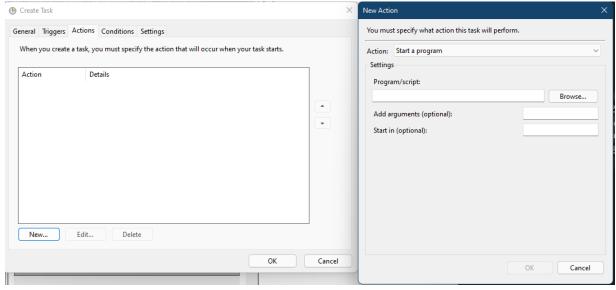


Step 3: Enter the Name and Description

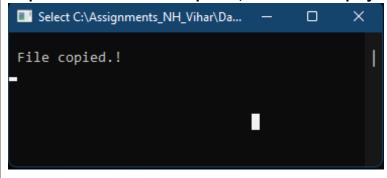




Step 5 : Click on the Actions tab and click on new to create the action. Copy and paste the .exe file path under Program/Script to run the scheduler.



Step 6 : Once a task is completed, here is the displayed output.



Write a C# code to write data into a file (append the data using StreamWriter class).

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
namespace write_data_streamwriter
  internal class Program
    static void Main(string[] args)
      //Creating a file using StreamWriter class
      StreamWriter sw = new StreamWriter(@"C:\Assignments_NH_Vihar\Day
15\streamwriter_ex.txt");
      sw.WriteLine("Hi this is VD");
      sw.WriteLine("\n Bunch of random text.");
      sw.Close();
      Console.WriteLine("\n File is written.");
      StreamWriter sw1 = new StreamWriter(@"C:\Assignments_NH_Vihar\Day
15\streamwriter_ex.txt", true);
      sw1.WriteLine("\n New object of StreamWriter class");
      sw1.WriteLine("\n More and more bunch of random text.");
      sw1.Close();
      Console.WriteLine("\n Data appended to file.");
      Console.ReadKey();
```

Write a C# code to read data from a file using file operations.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
namespace read_data_file_ops
  internal class Program
    static void Main(string[] args)
      //Creating a file
       StreamWriter sw = new StreamWriter(@"C:\Assignments_NH_Vihar\Day
15\streamwriter_ex.txt", true);
       sw.WriteLine("\n Object of StreamWriter");
       sw.WriteLine("\n Bunch of random text.");
       sw.Close();
       Console.WriteLine("\n File is appended.");
      //Reading the file
       StreamReader sr = new StreamReader(@"C:\Assignments_NH_Vihar\Day
15\streamwriter_ex.txt");
      sr.ReadToEnd();
      sr.Close();
       Console.WriteLine("\n File is read.");
       Console.ReadKey();
```

Write a C# code for Quiz app & store the scores in a text file.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
namespace quiz_app
 internal class Program
   static void Main(string[] args)
     //Variable Declaration
     int score = 0, x;
     string name;
     Console.Write("\n Enter your Name : ");
     name = Console.ReadLine();
     Console.WriteLine($"\n HEY! {name}, Here's a Quiz on Recent Technology");
     //1st Question-----
     Console.WriteLine("\nQ1. Which is the best processor manufactured by INTEL ?");
     Console.WriteLine("\n1. i5\t\t2. i3\t\t3. i9\t\t4. i7\n");
     Console.Write("\nEnter your answer : ");
     x = Convert.ToInt32(Console.ReadLine());
     if(x == 3)
     { score += 20; }
     //2nd Question-----
     Console.WriteLine("\nQ2. What is Elon Musk's automobile company name?");
     Console.WriteLine("\n1. Ford\t\t2. Tesla\t3. Honda\t4. Porsche\n");
     Console.Write("\nEnter your answer : ");
```

```
x = Convert.ToInt32(Console.ReadLine());
      if (x == 2)
      { score += 20; }
      //3rd Question-----
      Console.WriteLine("\nQ3. What's the current name of the social media company 'Facebook'
?");
      Console.WriteLine("\n1. Whatsapp\t2. Instagram\t3. Snapchat\t4. Meta\n");
      Console.Write("\nEnter your answer : ");
      x = Convert.ToInt32(Console.ReadLine());
      if (x == 4)
      { score += 20; }
      //4th Question-----
      Console.WriteLine("\nQ4. Which was the first cryptocurrency ever created ?");
      Console.WriteLine("\n1. Etherium\t2. Bitcoin\t3. DogeCoin\t4. PancakeSwap\n");
      Console.Write("\nEnter your answer : ");
      x = Convert.ToInt32(Console.ReadLine());
      if (x == 2)
      { score += 20; }
      //5th Question-----
      Console.WriteLine("\nQ5. Which of them is latest Windows OS ?");
      Console.WriteLine("\n1. Windows 11\t2. Windows Vista\t3. Windows 8\t4. Windows 98\n");
      Console.Write("\nEnter your answer : ");
      x = Convert.ToInt32(Console.ReadLine());
      if (x == 1)
      { score += 20; }
      StreamWriter sw = new StreamWriter(@"C:\Assignments_NH_Vihar\Day 15\scores.txt",
true);
      sw.WriteLine("\nName : {0} \t Score : {1}", name, score);
      sw.Close();
      Console.WriteLine("\n Congrats! Your score has been submitted");
      Console.WriteLine("\n----");
      Console.WriteLine("\n Contact ADMIN for queries.");
```

}

Output:



