| **DAY 15 : Assignment**  **By**  **Vihar D.** |
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| **Assignment 1** |
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| **Write a C# code with at least 10 methods in file operations.** |
| **Answer :** |
| **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 :** |
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| **Assignment 2** |
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| **Write a C# code to copy from one folder to another by scheduling the job using Task Scheduler.** |
| **Answer :** |
| **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 4 : Click on Triggers tab on top of the window to customize the task settings**    **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.** |

| **Assignment 3** |
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| **Write a C# code to write data into a file (append the data using StreamWriter class).** |
| **Answer :** |
| **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();**  **}**  **}**  **}** |
| **Output :** |
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| **Assignment 4** |
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| **Write a C# code to read data from a file using file operations.** |
| **Answer :** |
| **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();**  **}**  **}**  **}** |
| **Output :** |
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| **Assignment 5** |
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| **Write a C# code for Quiz app & store the scores in a text file.** |
| **Answer :** |
| **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)**  **{**  **Console.WriteLine("\n\t\*\*\*\*\*\*\*\*\*\*\*\*\*\*TECH QUIZ by Vihar.D\*\*\*\*\*\*\*\*\*\*\*\*\*\*\t\n");**  **//Variable Declaration**  **int score = 0, x;**  **string name;**  **Console.Write("\n Enter your Name : ");**  **name = Console.ReadLine();**  **Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**  **Console.WriteLine($"\n HEY ! {name}, Here's a Quiz on Recent Technology");**  **Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**  **//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("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**  **Console.WriteLine("\n Congrats! Your score has been submitted");**  **Console.WriteLine("\n-------------------------------------------");**  **Console.WriteLine("\n Contact ADMIN for queries.");**  **Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");**  **}**  **}**  **}** |
| **Output :** |
| **Data Stored in Text File :** |