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| **DAY 15 Assignment**  **By**  **Nanam Vaishnavi**  **11 – Feb -2022** |

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| 1. **Research and write at least 10 methods present in File Class. Illustrate with code example.** |
| 1. **File. Create() Method Code** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : files using create()Method  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.Create("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt  ");  Console.WriteLine("File Created");  Console.ReadLine();  }  }  } |
| **OUTPUT** |
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| 1. **WriteAllText() Code** |
| using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : File using WriteAllText()  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.WriteAllText("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt", "Welcome to NBH. ");  Console.WriteLine("File Read");  Console.ReadLine();  }  }  } |
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| 1. **File.AppendAllText()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // Author : Nanam Vaishnavi  // Purpose :using File.AppendAllText()  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  /\*File.WriteAllText("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt", "Welcome to NBH. ");  Console.WriteLine("File Read");  Console.ReadLine();\*/  File.AppendAllText("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt","Started C# Classes");  Console.WriteLine("File Append");  Console.ReadLine();  }  }  } |
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| 1. **GetCreationTime()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : to print CreationTime  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  Console.WriteLine(File.GetCreationTime("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt"));    Console.ReadLine();  }  }  } |
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| 1. **File.Encrypt()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : To encrypt file  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : 10 methods present in File Class  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {    File.Encrypt("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt");  Console.WriteLine("File Encrypted");  Console.ReadLine();    }  }  } |
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| 1. **File.Decrypt()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : To decrypt file  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.Decrypt("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt");  Console.WriteLine("File Decrypted");  Console.ReadLine();  }  }  } |
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| 1. **File.Copy()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : To copy files from one folder to other folder.  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.Copy("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt", "G:\\New folder\\Vaishu.txt");  Console.WriteLine("File Copied");  Console.ReadLine();  }  }  } |
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| 1. **File.delete()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : To delete file  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.Delete("G:\\New folder\\Vaishu.txt");  Console.WriteLine("File Deleted");  Console.ReadLine();  }  }  } |
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| 1. File.Exists() |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : To check whether the file exists or not.  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {    string CurrentFile = "G:\\New folder\\Vaishu.txt";  Console.WriteLine(File.Exists(CurrentFile)? "File Exists.": "File doesn't exists");  Console.ReadLine();  }  }  } |
| 1. **File.Move()** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : using File Methods  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : File moved to other folder  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project1  {  internal class Program  {  static void Main(string[] args)  {  File.Move("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt", "G:\\New folder\\Vaishu.txt");  Console.WriteLine("File Moved to other folder");  Console.ReadLine();  }  }  } |

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| **2. Write a C# Program 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.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : copy files from one folder to other folder using Task Schedule.  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace ConsoleApp123  {  internal class Program  {  static void Main(string[] args)  {  File.Copy("G:\\Vaisha\\Text26.txt", "G:\\FileProgram1\\Text26.txt");  Console.WriteLine("File Copy Done");  Console.ReadLine();  }  }  } |
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| **3. Research and write C# program to read data from file** |
| **CODE** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.IO;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : C# program to read data from file.  //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project4  {  internal class Program  {  static void Main(string[] args)  {    StreamReader sr = new StreamReader("F:\\NH\\DotNetProjects\\Day 15 Assignment\\File.txt");  {  while(true)  {  string line = sr.ReadLine();  if(line == null)  {  break;  }  Console.WriteLine(line);  }  }  Console.WriteLine("File reading done");  Console.ReadLine();  }  }  } |
| **OUTPUT** |
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| **4. Write a C# Program to write data into file (and append the data) using Stream writer class.** |
| using System;  using System.IO;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  // Author : Nanam Vaishnavi  // Purpose : WACP to write data into file (and append the data) using Stream writer class.  // \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  namespace Day15Project3  {  internal class Program  {  static void Main(string[] args)  {  /\*StreamWriter sw = new StreamWriter("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt");  {  sw.WriteLine("Welcome");  sw.WriteLine("to");  sw.WriteLine("NBH");  sw.WriteLine("Technologies");  sw.Close();  }\*/  StreamWriter sw = new StreamWriter("F:\\NH\\DotNetProjects\\Day 15 Assignment\\Vaishu.txt", true);  {  sw.WriteLine("Welcome");  sw.WriteLine("to");  sw.WriteLine("C Sharp");  sw.WriteLine("classes");  sw.Close();  Console.WriteLine("File Ready");  Console.ReadLine();  }  }  }  } |
| **OUTPUT** |
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| **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** |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.IO;  using System.Threading.Tasks;  namespace Day15Project5  {  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 Vaishnavi", name);  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  Console.WriteLine("Q1.How many continents are there in the world?");  Console.WriteLine("1. 3 2. 5 3. 7 4. 9");  ans = Convert.ToInt32(Console.ReadLine());  if (ans == 3)  score += 20;  Console.WriteLine("Q2.Which is the largest continent in area?");  Console.WriteLine("1.North America 2. Europe 3.Asia 4.South America ");  ans = Convert.ToInt32(Console.ReadLine());  if (ans == 3)  score += 20;  Console.WriteLine("Q3.Which of the following is not a continent? ");  Console.WriteLine("1.Africa 2. Russia 3.Antartica 4.Australia ");  ans = Convert.ToInt32(Console.ReadLine());  if (ans == 2)  score += 20;  Console.WriteLine("Q4.Which is the smallest continent in area? ");  Console.WriteLine("1.Africa 2. Europe 3.South America 4.Australia ");  ans = Convert.ToInt32(Console.ReadLine());  if (ans == 4)  score += 20;  Console.WriteLine("Q5.Which is the largest continent in population? ");  Console.WriteLine("1.Africa 2. Asia 3.South America 4.North America ");  ans = Convert.ToInt32(Console.ReadLine());  if (ans == 4)  score += 20;      string lines = "Name: " + name + "\nscore: " + score.ToString();  File.WriteAllText("QuizScore.txt", lines);  // File stream to read the file content  FileInfo fi = new FileInfo(@"QuizScore.txt");  string fullFileName = fi.FullName;  Console.WriteLine("File Name : {0}",fullFileName);  Console.WriteLine("Thank you for taking the quiz. Admin will let you know the score");  Console.ReadLine();  }  }  } |
| **OUTPUT** |
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