## Assignments to be done in this session

1. Write a console application which will read text files from mentioned file system location. And list subdirectories from mentioned folder on file system using System.IO namespace and use DirectoryInfo, Directory, File and FileInfo Classes with all the methods present in these classes.

using System;

using System.IO;

namespace FilesApp

{

public class Program

{

public static void Main()

{

try

{

string path = @"C:\Users\DELL\Desktop\C#-Dotnet-Part1\";

string[] f = Directory.GetFiles(path);

string[] directories = Directory.GetDirectories(path);

Console.WriteLine($"Files in {path}\n");

foreach (string file in f)

{

string fileName = Path.GetFileName(file);

Console.WriteLine(fileName);

string filepath = Path.Combine(path, fileName);

FileInfo myfile = new FileInfo(filepath);

// Opening file to read

StreamReader s = myfile.OpenText();

string data = "";

while ((data = s.ReadLine()) != null)

{

Console.WriteLine(data);

}

Console.WriteLine("\n");

}

Console.WriteLine($"Subdirectories inside {path}\n");

foreach (string directory in directories)

{

DirectoryInfo directoryinfo = new DirectoryInfo(directory);

directoryinfo.GetDirectories();

string directoryName = directoryinfo.Name;

Console.WriteLine(directoryName);

}

}

catch (IOException e)

{

Console.WriteLine(e);

}

}

}

}

1. Create a simple user interface to accept account related information of a customer.[ Account class from Lab session on Delegates and Events can be used]. Save the information about the customers in a file using StreamWriter and retrieve the information using StreamReader.

using System;

using System.IO;

namespace ConsoleApp2

{

class Account

{

public double AccountNumber;

public string Name;

public double AcBalance;

public void details()

{

Console.WriteLine("Enter Account No. : ");

AccountNumber = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter your Name : ");

Name = Console.ReadLine();

Console.WriteLine("Account Balance : ");

AcBalance = Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Account Number = {0} \nName = {1} \nAccount Balance = {2}", AccountNumber, Name, AcBalance);

string filepath = @"C:\Users\DELL\Desktop\C#-Dotnet-Part1\Bank Details.txt";

StreamWriter sw = File.CreateText(filepath);

sw.WriteLine("Account number = " + AccountNumber);

sw.WriteLine("Name = " + Name);

sw.WriteLine("Account Balance = " + AcBalance);

sw.Close();

Console.WriteLine("-----Reading Data from File-----");

using (StreamReader sr = File.OpenText(filepath))

{

String s = "";

while ((s = sr.ReadLine()) != null)

{

Console.WriteLine(s);

}

}

}

class filedata

{

public static void Main()

{

try

{

Account ac = new Account();

ac.details();

}

catch (Exception ex)

{

Console.WriteLine(ex.GetType().Name);

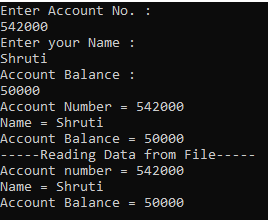
}

}

}

}

}



1. Make the Employee, MarketingExecutive and Manager class as Serializable

created in LitwareLib.dll .

1. Create a user interface to accept information about Manager(For simplicity accept only employee id , name and basic salary). Serialize the object using Binary Serialization and retrieve its information by deserializing the object.

go to litwarelib

>type [Serializable] above class employee

//-----------Serialization-------------

FileStream f = new FileStream(@"C:\Users\DELL\Desktop\C#-Dotnet-Part1\Employee Details.txt", FileMode.Open, FileAccess.Write);

BinaryFormatter b = new BinaryFormatter();

b.Serialize(f, obj);

f.Close();

//-----------Deserialization-----------

FileStream s = new FileStream(@"C:\Users\DELL\Desktop\C#-Dotnet-Part1\Employee Details.txt", FileMode.Open, FileAccess.Read);

BinaryFormatter bin = new BinaryFormatter();

bin.Deserialize(s);