## 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.IOnamespace and use DirectoryInfo, Directory, File and FileInfoClasses with all the methods present in theseclasses.
2. 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 StreamWriterand retrieve the information using StreamReader.
3. Make the Employee, MarketingExecutiveand 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 theobject.

Codes :

using System;

using System.IO;

using System.Linq;

using System.Runtime.Serialization;

using System.Runtime.Serialization.Formatters.Binary;

using System.Text;

using System.Threading.Tasks;

//a namespace called demo is created

namespace Demo

{

//Serializable attribute is declared

[Serializable]

//a class check is defined which will be used for serialization

class Check

{

public int identity;

public String nam;

static void Main(string[] args)

{

//an object of the check class is created to serialize it to the file Example.txt

Check ob = new Check();

ob.identity = 10;

ob.nam = "Shobha";

//a file stream is created

IFormatter format = new BinaryFormatter();

Stream stream1 = new FileStream(@"E:\Example.txt",FileMode.Create,FileAccess.Write);

//serialization of the object of the class check is done

format.Serialize(stream1, ob);

stream1.Close();

//a file stream is created

stream1 = new FileStream(@"E:\Example.txt",FileMode.Open,FileAccess.Read);

//the object of the class check is deserialized

Check ob1 = (Check)format.Deserialize(stream1);

//the data is written to the console

Console.WriteLine(ob1.identity);

Console.WriteLine(ob1.nam);

Console.ReadKey();

}

}

}

#2

using System;

using System.IO;

using System.Linq;

using System.Runtime.Serialization;

using System.Runtime.Serialization.Formatters.Binary;

using System.Text;

using System.Threading.Tasks;

namespace DemoApplication

{

[Serializable]

class Tutorial

{

public int ID;

public String Name;

static void Main(string[] args)

{

Tutorial obj = new Tutorial();

obj.ID = 1;

obj.Name = ".Net";

IFormatter formatter = new BinaryFormatter();

Stream stream = new FileStream(@"E:\ExampleNew.txt",FileMode.Create,FileAccess.Write);

formatter.Serialize(stream, obj);

stream.Close();

stream = new FileStream(@"E:\ExampleNew.txt",FileMode.Open,FileAccess.Read);

Tutorial objnew = (Tutorial)formatter.Deserialize(stream);

Console.WriteLine(objnew.ID);

Console.WriteLine(objnew.Name);

Console.ReadKey();

}

}

}

#3

Console.WriteLine("Single Dimension Array Sample");

// Single dim array

string[] strArray = new string[] {

"Mahesh Chand",

"Mike Gold",

"Raj Beniwal",

"Praveen Kumar",

"Dinesh Beniwal"

};

// Read array items using foreach loop

foreach(string str in strArray) {

Console.WriteLine(str);

}

Console.WriteLine("-----------------------------");

Console.WriteLine("Multi-Dimension Array Sample");

string[, ] string2DArray = new string[2, 2] {

{

"Rosy",

"Amy"

}, {

"Peter",

"Albert"

}

};

foreach(string str in string2DArray) {

Console.WriteLine(str);

}

Console.WriteLine("-----------------------------");

Console.WriteLine("Jagged Array Sample");

int[][] intJaggedArray3 = {

new int[] {

2,

12

},

new int[] {

14,

14,

24,

34

},

new int[] {

6,

16,

26,

36,

46,

56

}

};

// Loop through all itesm of a jagged array

for (int i = 0; i < intJaggedArray3.Length; i++) {

Console.Write($"Element({i}): ");

for (int j = 0; j < intJaggedArray3[i].Length; j++) {

Console.Write($"{intJaggedArray3[i][j]} ");

}

Console.WriteLine();

}

Console.WriteLine("-----------------------------");