Guru99

- C# Hello World

```
using System;
namespace ex1
{
    class Program
    {
        static void Main(string[] args)
         {
            Console.Write("Hello World");
            Console.ReadKey();
        }
    }
}
```

■ C:\Users\LumiDaK1NG\source\repos\ Hello World_

C# Data Types

```
using System;
namespace ex2
{
    class Program
    {
        static void Main(string[] args)
        {
            Int32 num = 30;
            Console.Write(num);
            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\t
```

- C# Data Types

```
using System;

namespace ex3
{
    class Program
    {
        static void Main(string[] args)
        {
            double num = 30.33;
            Console.Write(num);

            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\0
```

- C# Enum

■ C:\Users\LumiDaK1NG\source\repos\ Sunday_

- C# Variables operator

```
using System;
namespace ex5
{
    class Program
    {
        static void Main(string[] args)
        {
            String message = "The value is ";
            Int32 val = 30;
            Console.Write(message + val);
            Console.ReadKey();
        }
    }
}
```

■ C:\Users\LumiDaK1NG\source\repos\ The value is 30_

- C# Variables operator

C:\Users\LumiDaK1NG\source\repos\0 30 -Tnue -False

```
■ C:\Users\LumiDaK1NG\source\repos\
Value is greater than 10
■
```

```
using System;
namespace ex8
{
    class Program
        static void Main(string[] args)
            Int32 value = 11;
            switch (value)
                case 1:
                    Console.WriteLine("Value is 1");
                    break;
                case 2:
                    Console.WriteLine("Value is 2");
                    break;
                default:
                    Console.WriteLine("value is different");
                    break;
            }
       }
   }
}
```

■ C:\Users\LumiDaK1NG\source\repos\ value is different

```
C:\Users\LumiDaK1NG\source\repos\0
1
2
3
4
```

```
C:\Users\LumiDaK1NG\source\repos\

0
1
2
3
4
5
6
7
8
9
```

- C# Arrays

```
using System;
namespace ex11
    class Program
        static void Main(string[] args)
        {
            Int32[] vlera;
            vlera = new Int32[3];
            vlera[0] = 1;
            vlera[1] = 2;
            vlera[2] = 3;
            Console.WriteLine(vlera[0]);
            Console.WriteLine(vlera[1]);
            Console.WriteLine(vlera[2]);
            Console.ReadKey();
        }
    }
}
        C:\Users\LumiDaK1NG\source\repos\
```

1 2 3

- C# Class and Object

```
using System;
namespace ex12
{
    class Tutorial
    {
        int TutorialID;
        string TutorialName;

        public void SetTutorial(int pID, string pName)
        {
            TutorialID = pID;
            TutorialName = pName;
        }
        public String GetTutorial()
        {
            return TutorialName;
        }
    }
}
```

```
using System;

namespace ex14
{
    class Program
    {
        static void Main(string[] args)
         {
            Tutorial pTutor = new Tutorial();
            pTutor.SetTutorial(1, ".NET");
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
```

- C# Access Modifiers and Constructor

```
using System;
namespace example15
    class Tutorial
        public int TutorialID;
        public string TutorialName;
        public Tutorial()
            TutorialID = 0;
            TutorialName = "Default";
        public void SetTutorial(int pID, string pName)
            TutorialID = pID;
            TutorialName = pName;
        public String GetTutorial()
            return TutorialName;
        static void Main(string[] args)
        {
            Tutorial pTutor = new Tutorial();
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
```

■ C:\Users\LumiDaK1NG\source\repos\ Default ■

- <u>C# Inheritance and Polymorphism</u>

```
using System;
namespace ex16
    class Tutorial
        protected int TutorialID;
        protected string TutorialName;
        public void SetTutorial(int pID, string pName)
            TutorialID = pID;
            TutorialName = pName;
        public String GetTutorial()
            return TutorialName;
    public class ExampleTutorial : Tutorial
        public void RenameTutorial(String pNewName)
            TutorialName = pNewName;
        static void Main(string[] args)
            ExampleTutorial pTutor = new ExampleTutorial();
            pTutor.RenameTutorial(".Net by Example");
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
```

- C# Inheritance and Polymorphism

```
using System;
namespace ex17
    class Tutorial
        public int TutorialID;
        public string TutorialName;
        public void SetTutorial(int pID, string pName)
            TutorialID = pID;
            TutorialName = pName;
        public void SetTutorial(string pName)
            TutorialName = pName;
        public String GetTutorial()
            return TutorialName;
        static void Main(string[] args)
            Tutorial pTutor = new Tutorial();
            pTutor.SetTutorial(1, "First Tutorial");
            Console.WriteLine(pTutor.GetTutorial());
            pTutor.SetTutorial("Second Tutorial");
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
```

C:\Users\LumiDaK1NG\source\repos\0
First Tutorial
Second Tutorial

C# Abstract classes

```
using System;
namespace ex18
    abstract class Tutorial
        public virtual void Set()
    class ExampleTutorial : Tutorial
        protected int TutorialID;
        protected string TutorialName;
        public void SetTutorial(int pID, string pName)
            TutorialID = pID;
            TutorialName = pName;
        }
        public String GetTutorial()
            return TutorialName;
        static void Main(string[] args)
            ExampleTutorial pTutor = new ExampleTutorial();
            pTutor.SetTutorial(1, ".Net");
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
              C:\Users\LumiDaK1NG\source\repos\
```

C:\Users\LumiDaK1NG\source\repos\t .Net _

- C# Interface

```
using System;
namespace ex19
    interface ExampleInterface
        void SetTutorial(int pID, string pName);
        String GetTutorial();
    }
    class ExampleTutorial : ExampleInterface
        protected int TutorialID;
        protected string TutorialName;
        public void SetTutorial(int pID, string pName)
            TutorialID = pID;
            TutorialName = pName;
        }
        public String GetTutorial()
            return TutorialName;
        static void Main(string[] args)
        {
            ExampleTutorial pTutor = new ExampleTutorial();
            pTutor.SetTutorial(1, ".Net by Example");
            Console.WriteLine(pTutor.GetTutorial());
            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\.Net by Example
```

- C# ArrayList

```
using System;
using System.Collections;
namespace ex20
    class Program
    {
        static void Main(string[] args)
            ArrayList a1 = new ArrayList();
            a1.Add(1);
            a1.Add("Example");
            a1.Add(true);
            Console.WriteLine(a1[0]);
            Console.WriteLine(a1[1]);
            Console.WriteLine(a1[2]);
            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\

1
Example
True
```

- C# ArrayList

```
using System;
using System.Collections;
namespace ex21
    class Program
        static void Main(string[] args)
            ArrayList a1 = new ArrayList();
            a1.Add(1);
            a1.Add("Example");
            a1.Add(true);
            Console.WriteLine(a1.Count);
            Console.WriteLine(a1.Contains(2));
            Console.WriteLine(a1[1]);
            a1.RemoveAt(1);
            Console.WriteLine(a1[1]);
            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\0

False
Example
True
```

- C# Stack

```
using System;
using System.Collections;
namespace ex22
    class Program
        static void Main(string[] args)
            Stack st = new Stack();
            st.Push(1);
            st.Push(2);
            st.Push(3);
            foreach (Object obj in st)
            {
                Console.WriteLine(obj);
            Console.WriteLine(); Console.WriteLine();
            Console.WriteLine("The number of elements in the stack " +
st.Count);
            Console.WriteLine("Does the stack contain the elements 3 " +
st.Contains(3));
            Console.ReadKey();
        }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\ConsoleApp11\ConsoleApp11\

2

1

The number of elements in the stack 3

Does the stack contain the elements 3 True
```

- C# Stack

```
using System;
using System.Collections;
namespace ex23
    class Program
    {
        static void Main(string[] args)
            Stack st = new Stack();
            st.Push(1);
            st.Push(2);
            st.Push(3);
            st.Pop();
            foreach (Object obj in st)
                Console.WriteLine(obj);
            Console.ReadKey();
       }
   }
}
```

```
C:\Users\LumiDaK1NG\source\repos\t
2
1
```

- C# Queue

```
using System;
using System.Collections;
namespace ex24
    class Program
        static void Main(string[] args)
        {
            Queue qt = new Queue();
            qt.Enqueue(1);
            qt.Enqueue(2);
            qt.Enqueue(3);
            foreach (Object obj in qt)
            {
                Console.WriteLine(obj);
            Console.WriteLine(); Console.WriteLine();
            Console.WriteLine("The number of elements in the Queue " +
qt.Count);
            Console.WriteLine("Does the Queue contain " + qt.Contains(3));
            Console.ReadKey();
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\ConsoleApp11\ConsoleApp11\

2

3

The number of elements in the Queue 3

Does the Queue contain True
```

- C# Queue

```
using System;
using System.Collections;
namespace e25
    class Program
    {
        static void Main(string[] args)
            Queue qt = new Queue();
            qt.Enqueue(1);
            qt.Enqueue(2);
            qt.Enqueue(3);
            qt.Dequeue();
            foreach (Object obj in qt)
                Console.WriteLine(obj);
            Console.ReadKey();
       }
    }
}
```

```
C:\Users\LumiDaK1NG\source\repos\t
2
3
```

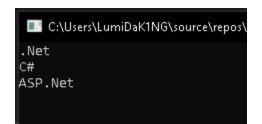
- C# Hashtable

```
using System.Collections;

namespace ex26
{
    class Program
    {
        static void Main(string[] args)
        {
            Hashtable ht = new Hashtable();
            ht.Add("001", ".Net");
            ht.Add("002", "C#");
            ht.Add("003", "ASP.Net");

            ICollection keys = ht.Keys;

            foreach (String k in keys)
            {
                  Console.WriteLine(ht[k]);
            }
            Console.ReadKey();
        }
}
```



- C# Hashtable

```
using System;
using System.Collections;
namespace ex27
    class Program
    {
        static void Main(string[] args)
        {
             Hashtable ht = new Hashtable();
             ht.Add("001", ".Net");
ht.Add("002", "C#");
             ht.Add("003", "ASP.Net");
             Console.WriteLine(ht.ContainsKey("001"));
             Console.WriteLine(ht.ContainsValue("C#"));
             Console.ReadKey();
        }
    }
}
```

C:\Users\LumiDaK1NG\source\repos\ True True

C# File Operations

```
using System;
namespace ex28
{
    class Tutorial
    {
        static void Main(string[] args)
        {
            String path = @"D:\Example.txt";
            if (File.Exists(path))
            {
                 Console.WriteLine("File Exists");
            }
            Console.ReadKey();
        }
}
```

- C# File Operations

```
using System;
namespace ex29
{
    class Tutorial
    {
        static void Main(string[] args)
        {
            String path = @"D:\Example.txt";
            String[] lines;
            lines = File.ReadAllLines(path);
            Console.WriteLine(lines[0]);
            Console.WriteLine(lines[1]);
            Console.ReadKey();
        }
    }
}
```

- C# File Operations

```
using System;
namespace ex30
{
    class Tutorial
    {
        static void Main(string[] args)
        {
            String path = @"D:\Example.txt";
            String lines;
            lines = File.ReadAllText(path);
            Console.WriteLine(lines);
            Console.ReadKey();
        }
    }
}
```

C# File Operations

```
using System;
namespace ex31
{
    class Tutorial
    {
        static void Main(string[] args)
        {
            String path = @"D:\Example.txt";
            File.Delete(path);
            Console.ReadKey();
        }
     }
}
```

- C# Serialization

- C# Serialization