



Khandesh College Education Society's

## MOOLJI JAITHA COLLEGE, JALGAON

"An Autonomous College Affiliated to K.B.C. North Maharashtra University, Jalgaon"  
NAAC Reaccredited with "A" Grade CGPA: 3.15 ( 3rd Cycle) UGC Honored" College of  
Excellence" ISO 9001 : 2015 Certified Department of Biotechnology, Ministry of Science &  
Technology , New Delhi Honoured "Star College" DST ( FIST) recognised

### School of Computer Science

### *Certificate*

*This is to Certify that \_\_\_\_\_*

*Mr. / Miss \_\_\_\_\_*

*Roll No. ----- Class \_\_\_\_\_*

*Semester \_\_\_\_\_ has \_\_\_\_\_ as successfully completed*

*Practical for the academic Year 20 -20*

*Date: I 120*

### **Practical Incharge**

Internal Examiner

External Examiner

## **INDEX**

# 1. Program for print teach one each one no of times

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace Pract_1
{
    class Program
    {
        static void Main(string[] args)
        {
            int n;
            Console.WriteLine("How many times");
            n = int.Parse(Console.ReadLine());
            for (int i = 1; i <= n; i++)
                Console.WriteLine("Teach One, Each One, Tree One");
            Console.ReadLine();
        }
    }
}
```

```
How many times
5
Teach One, Each One, Tree One
```

## 2. Program for different operators

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace practical2
{
    class Program
    {
        static void Main(string[] args)
        {
            int a, b, result;
            Console.WriteLine("Enter any two number");
            a = int.Parse(Console.ReadLine());
            b = int.Parse(Console.ReadLine());
            result = a + b;
            Console.WriteLine("Addition=" + result);
            result = a - b;
            Console.WriteLine("Substraction=" + result);
            result = a * b;
            Console.WriteLine("Multiplication=" + result);
            result = a / b;
            Console.WriteLine("Division=" + result);
            if (a > b)
                Console.WriteLine("Maximum=" + a);
            else
                if (b > a)
                    Console.WriteLine("Maximum=" + b);
                else
                    Console.WriteLine("Both are same");
            Console.ReadLine();

        }
    }
}
```

Enter any two number

10

20

Addition=30

Substraction=-10

Multiplication=200

Division=0

Maximum=20

### 3. Program for factorial number

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace practical3a
{
    class Program
    {
        static void Main(string[] args)
        {
            int n, fact = 1;
            Console.WriteLine("Enter any one number");
            n = int.Parse(Console.ReadLine());
            for (int i = 1; i <= n; i++)
                fact = fact * i;
            Console.WriteLine("Factorial of " + n + " = " + fact);
            Console.ReadLine();
        }
    }
}
```

Enter any one number

6

Factorial of 6 = 720

#### 4. Program for febonacci series (using while loop)

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace pract3b
{
    class Program
    {
        static void Main(string[] args)
        {
            int a = 1, b = 2, c, count=1;
            Console.Write(a + "\t" + b);
            while (count <= 8)
            {
                c = a + b;
                Console.Write("\t" + c);
                a = b;
                b = c;
                count++;
            }
            Console.ReadLine();
        }
    }
}
```

1    2    3    5    8    13    21    34    55    89

## 4.1. Program for do while loop

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace practical3c
{
    class Program
    {
        static void Main(string[] args)
        {
            int a=0, b=0, result,choice;
            do
            {
                Console.WriteLine("1 - Addition");
                Console.WriteLine("2 - Substraction");
                Console.WriteLine("3 - Multiplication");
                Console.WriteLine("4 - Division");
                Console.WriteLine("5 - Exit");
                Console.WriteLine("Enter Your choice");
                choice = int.Parse(Console.ReadLine());
                if (choice >= 1 && choice <= 4)
                {
                    Console.WriteLine("Enter value for a");
                    a = int.Parse(Console.ReadLine());
                    Console.WriteLine("Enter value for b");
                    b = int.Parse(Console.ReadLine());
                }
                switch (choice)
                {
                    case 1:
                        result = a + b;
                        Console.WriteLine("Addition=" + result);
                        break;
                    case 2:
                        result = a - b;
                        Console.WriteLine("Substration=" + result);
                        break;
                    case 3:
                        result = a * b;
                        Console.WriteLine("Multiplication=" + result);
                        break;
                    case 4:
                        result = a / b;
                        Console.WriteLine("Division=" + result);
                        break;
                }
            }
        }
    }
}
```

```
case 5:  
    Console.WriteLine("BYE BYE");  
    break;  
default:  
    Console.WriteLine("Invalid choice try again");  
    break;  
}  
}while (choice != 5);  
Console.Read();  
}  
}  
}
```

```
1 - Addition  
2 - Subtraction  
3 - Multiplication  
4 - Division  
5 - Exit  
Enter Your choice  
1  
Enter value for a  
20  
Enter value for b  
15  
Addition=35  
1 - Addition  
2 - Subtraction  
3 - Multiplication  
4 - Division  
5 - Exit  
Enter Your choice  
5  
BYE BYE
```

## 4.2. Program for use of For loop

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace pract3d
{
    class Program
    {
        static void Main(string[] args)
        {
            int i, j;
            for (i = 1; i <= 10; i++)
            {
                for (j = 2; j <= 5; j++)
                {
                    Console.Write("\t" + j * i);
                }
                Console.WriteLine();
            }
            Console.ReadKey();
        }
    }
}
```

2	3	4	5
4	6	8	10
6	9	12	15
8	12	16	20
10	15	20	25
12	18	24	30
14	21	28	35
16	24	32	40
18	27	36	45
20	30	40	50

## 5. Program for use of Constructor

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace pract4constructor
{
    class rect
    {
        double height, weight;
        public rect()
        {
            Console.WriteLine("This is default constructor");
            height = 5.0;
            weight = 4.0;
        }
        public rect(double h, double w)
        {
            Console.WriteLine("This is parameterized construcotr");
            height = h;
            weight = w;
        }
        public void area()
        {
            Console.WriteLine("Area=" + (height * weight));
        }
    }

    class Program
    {
        static void Main(string[] args)
        {
            rect obj1 = new rect();
            rect obj2 = new rect(6.4, 7.4);
            obj1.area();
            obj2.area();
            Console.Read();
        }
    }
}

This is default constructor
This is parameterized construcotr
Area=20
Area=47.36
```

## 6. Program for use of Inheritance

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace PRACT5
{
    class person
    {
        string fname;
        string lname;
        public person(string fnm, string lnm)
        {
            fname = fnm;
            lname = lnm;
        }
        public void dispname()
        {
            Console.WriteLine("First Name=" + fname);
            Console.WriteLine("Last Name=" + lname);
        }
    }
    class employee : person
    {
        double salary;
        public employee(String fnm, string lnm, double sal)
            : base(fnm, lnm)
        {
            salary = sal;
        }
        public void dispsal()
        {
            Console.WriteLine("Salary=" + salary);
        }
    }
    class Program
    {
        static void Main(string[] args)
        {
            employee em = new employee("Rahul", "Sharma", 8000);
            em.dispname();
            em.dispsal();
            Console.ReadLine();
        }
    }
}
First Name=Rahul
Last Name=Sharma
Salary=8000
```

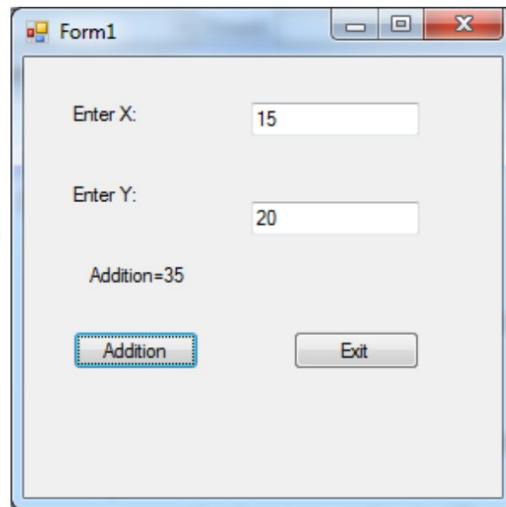
## 7. Program for Exception Handling

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace exceptionhandling
{
    class Program
    {
        static void Main(string[] args)
        {
            int x, y, z;
            try
            {
                Console.WriteLine("Enter x value");
                x = int.Parse(Console.ReadLine());
                Console.WriteLine("Enter y value");
                y = int.Parse(Console.ReadLine());
                z = x / y;
                Console.WriteLine("z=" + z);
            }
            catch (DivideByZeroException ex)
            {
                Console.WriteLine("Cannot Divide by zero");
            }
            Console.WriteLine("End of the Program");
            Console.ReadLine();
        }
    }
}
```

```
Enter x value
10
Enter y value
0
Cannot Divide by zero
End of the Program
```

## 8. Program for Button, Textbox, label Controls



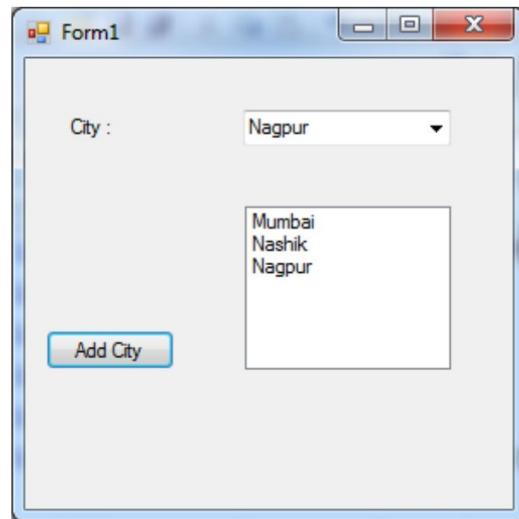
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace Pract_7
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            int a = int.Parse(textBox1.Text);
            int b = int.Parse(textBox2.Text);
            int result = a + b;
            label3.Text = "Addition=" + result;
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Application.Exit();
        }
    }
}
```

## 9. Program for Listbox, combobox Controls

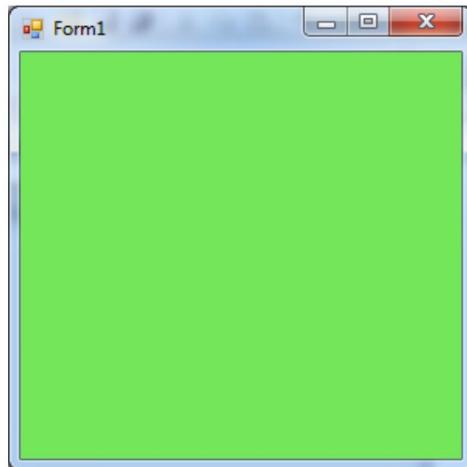


```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace Pract_8
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            listBox1.Items.Add(comboBox1.SelectedItem);
        }
    }
}
```

## 10. Program for Timer Control



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

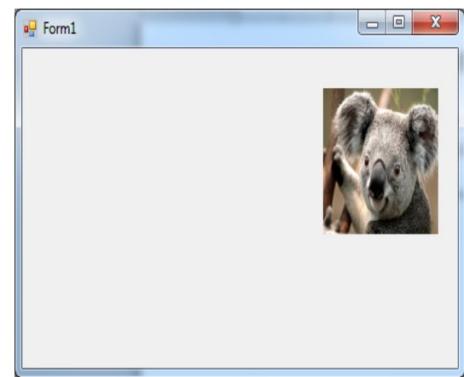
namespace timertest
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void timer1_Tick(object sender, EventArgs e)
        {
            Random newcolor = new Random();
            this.BackColor =
Color.FromArgb(newcolor.Next(255),newcolor.Next(255),newcolor.Next(255));
        }

        private void Form1_Load(object sender, EventArgs e)
        {
            timer1.Enabled = true;
        }
    }
}
```

## 10.1. Program for PictureBox Control

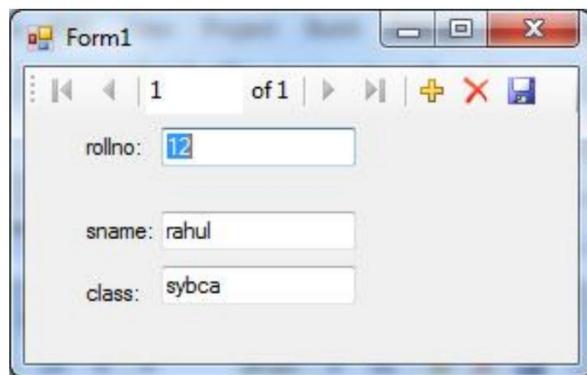
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
```



```
namespace picturebox
{
    public partial class Form1 : Form
    {
        int i = 1;
        public Form1()
        {
            InitializeComponent();
        }

        private void timer1_Tick(object sender, EventArgs e)
        {
            if (i == 1)
            {
                pictureBox1.Visible = true;
                pictureBox2.Visible = false;
                pictureBox3.Visible = false;
                i += 1;
            }
            else if (i == 2)
            {
                pictureBox1.Visible = false;
                pictureBox2.Visible = true;
                pictureBox3.Visible = false;
                i += 1;
            }
            else if (i == 3)
            {
                pictureBox1.Visible = false;
                pictureBox2.Visible = false;
                pictureBox3.Visible = true;
                i = 1;
            }
        }
    }
}
```

## 11. Demonstrate Simple Database Connectivity using wizard



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace databestest
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();
        }

        private void studentBindingNavigatorSaveItem_Click(object sender, EventArgs e)
        {
            this.Validate();
            this.studentBindingSource.EndEdit();
            this.tableAdapterManager.UpdateAll(this.mdbDataSet);

        }

        private void Form1_Load(object sender, EventArgs e)
        {
            this.studentTableAdapter.Fill(this.mdbDataSet.student);

        }
    }
}
```