



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

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[illegible]

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
Teach One, Each One, Tree One
Teach One, Each One, Tree One
Teach One, Each One, Tree One
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("Substraction=" + 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 - Substraction
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 - Substraction
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 dispсал()
        {
            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
```

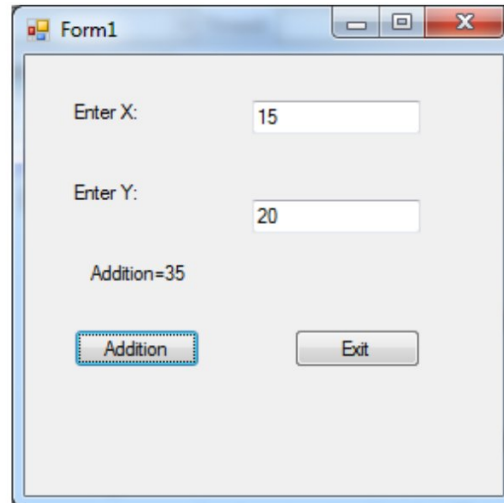
7. Program for Exception Handling

```
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



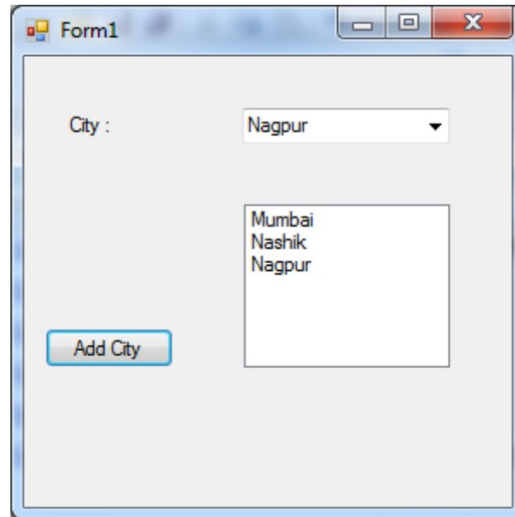
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

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

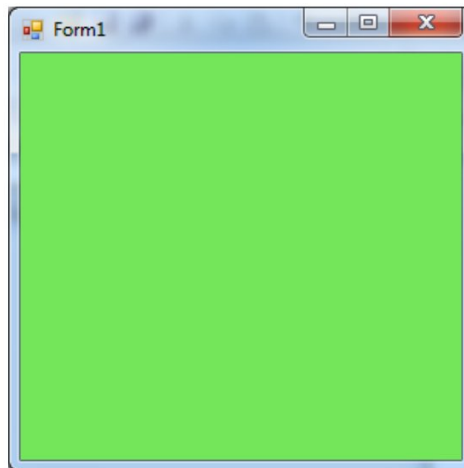


```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

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));
            }

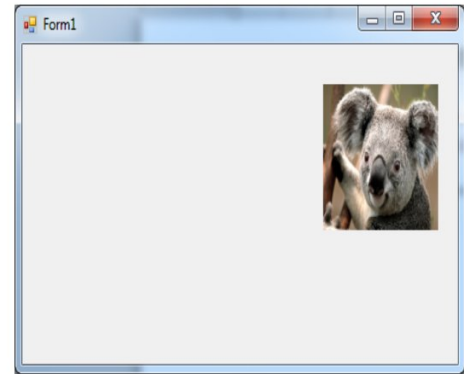
            private void Form1_Load(object sender, EventArgs e)
            {
                timer1.Enabled = true;
            }
        }
    }
}
```

10.1. Program for PictureBox Control

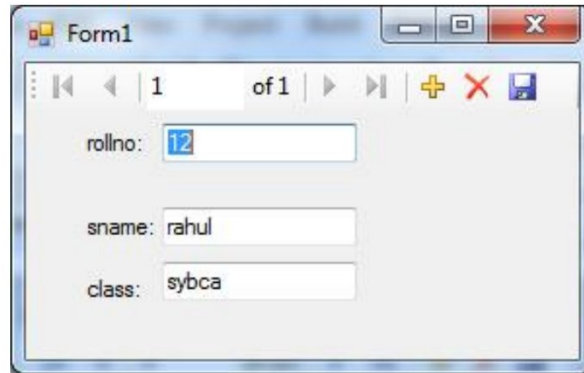
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;
```

```
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;
    }
    elseif (i == 2)
    {
        pictureBox1.Visible = false;
        pictureBox2.Visible = true;
        pictureBox3.Visible = false;
        i += 1;
    }
    elseif (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);
        }
    }
}
```