SYBCA BCA-406- Practical on C#.Net

Ass. No. 1. Write a program to print "Teach One, Each One, Tree One" given number of times.

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ConsoleApplication1
classProgram
staticvoid Main(string[] args)
int i,n;
Console. Write("Enter value of N:");
       n = Int32.Parse(Console.ReadLine());
for (i=1; i<=n; i++)
Console. WriteLine("Teach One, Each One, Tree One");
Console.ReadKey();
    }
  }
}
Output:
Enter value of N: 10
Teach One, Each One, Tree One
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
namespace ConsoleApplication2
classProgram
staticvoid Main(string[] args)
int x, y, z;
bool a;
Console. Write("Enter value of X:");
       x = Int32.Parse(Console.ReadLine());
Console. Write("Enter value of Y:");
       y = Int32.Parse(Console.ReadLine());
       z = x + y;
Console. WriteLine("Addition =  " + z );
       z = x - y;
Console. WriteLine("Subtraction = " + z);
       z = x * y;
Console.WriteLine("Multiplication = " + z);
       z = x / y;
Console. WriteLine("Division =  + z );
       a = x > y;
Console. WriteLine("X > Y = " + a);
       a = x < y;
Console. WriteLine("X < Y = " + a);
       a = x != y;
Console. WriteLine("X != Y = " + a);
       a = x == y;
Console. WriteLine("X == Y = " + a);
       z = x >> 1;
Console. WriteLine("X \gg 1 = " + z);
       z = x << 1;
Console. WriteLine("X \ll 1 = " + z);
Console.ReadKey();
```

```
}
}
}
```

```
Enter value of X:20

Enter value of Y:15

Addition = 35

Subtraction = 5

Multiplication = 300

Division = 1

X > Y = True

X < Y = False

X != Y = True

X == Y = False

X >> 1 = 10

X << 1 = 40
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ConsoleApplication3
{\bf classProgram}
staticvoid Main(string[] args)
int i, n, f=1;
Console. Write("Enter value of N:");
       n = Int32.Parse(Console.ReadLine());
for (i = 1; i \le n; i++)
         f = f * i;
Console. WriteLine("Factorial of "+ n + " = " + f);
Console.ReadKey();
     }
  }
}
Output:
Enter value of N: 5
```

Factorial of 5 = 120

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ConsoleApplication4
classProgram
int x;
    Program()
       x = 100;
Console. WriteLine("Demonstrating Default constructor");
Console. WriteLine("X = " + x);
     }
    Program(int p)
       x = p;
Console. WriteLine("Demonstrating Parameterized constructor");
Console. WriteLine("X = " + x);
staticvoid Main(string[] args)
Program obj1 = newProgram();
Program obj2 = \text{newProgram}(200);
Console.ReadKey();
     }
}
Output:
Demonstrating Default constructor
X = 100
Demonstrating Parameterized constructor
X = 200
```

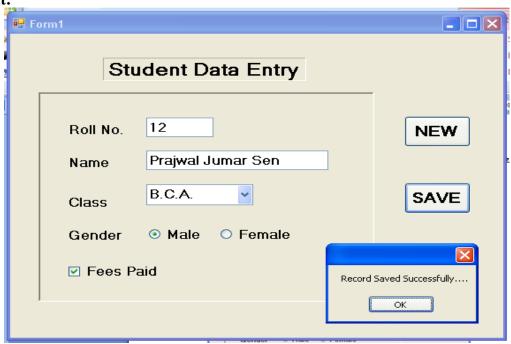
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ConsoleApplication5
publicclassstudent
int rno;
string name;
publicvoid getStudent()
Console.Write("Enter Roll No.:");
Int32.Parse(Console.ReadLine());
Console.Write("Enter Name : ");
       name = Console.ReadLine();
     }
publicvoid putStudent()
Console.WriteLine("Roll No. = " + rno);
Console. WriteLine("Name = " + name);
  }
classmarks: student
int m1, m2, m3, total;
publicvoid getMarks()
Console. Write ("Enter marks of 3 subjects:
       m1 =
Int32.Parse(Console.ReadLine());
       m2 =
Int32.Parse(Console.ReadLine());
       m3 =
Int32.Parse(Console.ReadLine());
```

```
total = m1 + m2 + m3;
     }
publicvoid putMarks()
Console. WriteLine("\# M1 = " + m1);
Console. WriteLine("\# M2 = " + m2);
Console. WriteLine("\# M3 = " + m3);
Console.WriteLine("Total = " + total);
  }
classProgram
staticvoid Main(string[] args)
marks s1 = newmarks();
       s1.getStudent();
       s1.getMarks();
       s1.putStudent();
       s1.putMarks();
Console.ReadKey();
  }
}
Output:
Enter Roll No.: 12
Enter Name: Bharat
Enter marks of 3 subjects : 56
68
75
Roll No. = 12
Name = Bharat
\# M1 = 56
\# M2 = 68
#M3 = 75
Total = 199
```

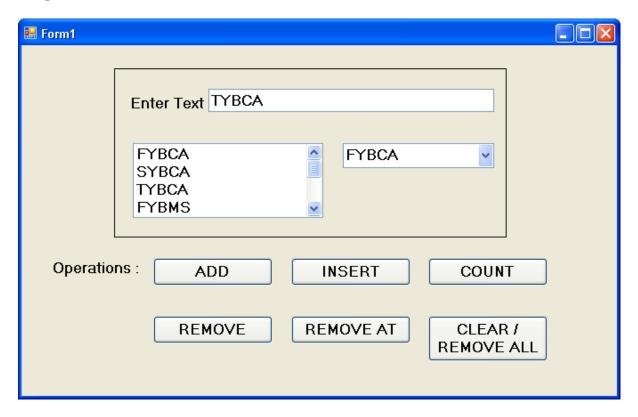
```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace ConsoleApplication6
classProgram
staticvoid Main(string[] args)
int x, y;
int div;
try
Console. Write("Enter value of X:");
         x = Int32.Parse(Console.ReadLine());
Console. Write("Enter value of Y:");
         y = Int32.Parse(Console.ReadLine());
         div = x / y;
Console.WriteLine("Division = " + div);
catch (DivideByZeroException de)
Console.WriteLine("Exception Occured.");
Console. WriteLine(de. Message);
Console.ReadKey();
     }
  }
Output:
   i) Enter value of X: 20
       Enter value of Y: 2
       Division = 10
   ii) Enter value of X: 20
       Enter value of Y: 0
       Exception Occured.
       Attempted to divide by zero.
```

Ass.No. 7. Create a simple C# application using Label, TextBox, and Button 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 WindowsFormsApplication1
publicpartialclassForm1 : Form
public Form1()
       InitializeComponent();
privatevoid button2_Click(object sender, EventArgs e)
MessageBox.Show ("Record Saved Successfully....");
privatevoid button3_Click(object sender, EventArgs e)
Application.Exit();
```



```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Windows. Forms;
namespace WindowsFormsApplication2
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
       listBox1.Items.Add(textBox1.Text);
       comboBox1.Items.Add(textBox1.Text);
       textBox1.Text = "";
       textBox1.Focus();
     }
    private void button2_Click(object sender, EventArgs e)
       listBox1.Items.Remove(listBox1.Text);
       comboBox1.Items.Remove(comboBox1.Text);
    private void button3_Click(object sender, EventArgs e)
       listBox1.Items.RemoveAt(1);
       comboBox1.Items.RemoveAt(1);
    private void button4_Click(object sender, EventArgs e)
       textBox1.Text = Convert.ToString(listBox1.Items.Count);
    private void button5_Click(object sender, EventArgs e)
       listBox1.Items.Insert(2, textBox1.Text);
  }
```



```
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 WindowsFormsApplication3
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
       timer1.Start();
    private void timer1_Tick(object sender, EventArgs e)
       label2.Text = DateTime.Now.Hour + ":" + DateTime.Now.Minute + ":" +
                     DateTime.Now.Second;
     }
    private void button2_Click(object sender, EventArgs e)
       timer1.Stop();
}
```



```
using System;
using System.ComponentModel;
using System.Drawing;
using System.Text;
using System.Windows.Forms;

namespace WindowsFormsApplication4
{
   public partial class Form1 : Form
   {
      public Form1()
      {
            InitializeComponent();
      }

      private void hScrollBar1_Scroll(object sender, ScrollEventArgs e)
      {
            pictureBox1.Width = pictureBox1.Width + hScrollBar1.Value;
            pictureBox1.Height = pictureBox1.Height + hScrollBar1.Value;
      }
    }
}
```

