AIM: Design UI based applications using basic Windows forms Controls

A) Write a Program in C# that ask the user to enter a month, a day and a two digit year. The program should then determine whether the month times a day is equal to the year. If so, it should display the message saying the date is magic. Otherwise not a magic.

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace p1MagicNumber
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    }
    private void button1 Click(object sender, EventArgs e)
       int month = Convert.ToInt32(numericUpDown1.Text);
       int date = Convert.ToInt32(numericUpDown2.Text);
       int year = Convert.ToInt32(numericUpDown3.Text);
       if (date * month == year)
       {
         MessageBox.Show("Date is a magic date", "MagicNumberCheck");
       else
         MessageBox.Show("Date is not a magic date", "MagicNumberCheck");
}
```

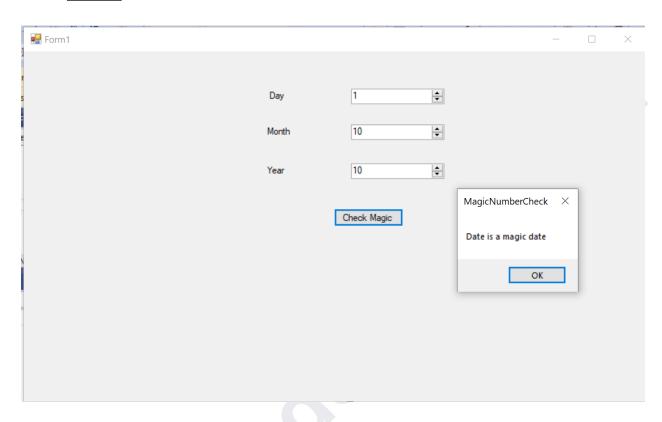
FYMCA-B AWT

SEM-II PRACTICAL NO: 01

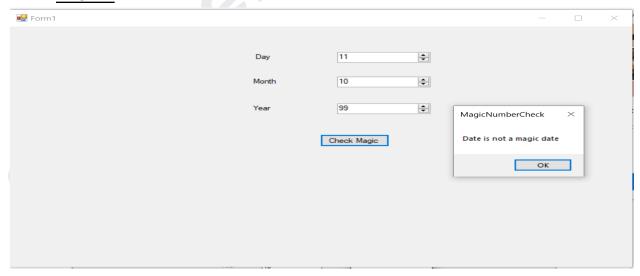
DATE: 09/05/2022 ROLL NO: 24

OUTPUT:

CASE-I:



CASE-II:



DATE: 09/05/2022 ROLL NO: 24

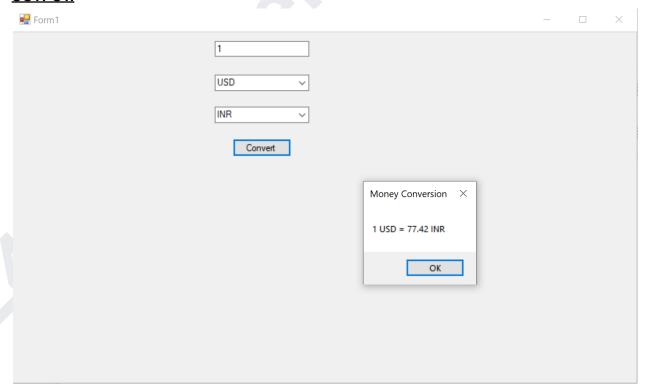
B) Write a Program to perform Money Conversion.

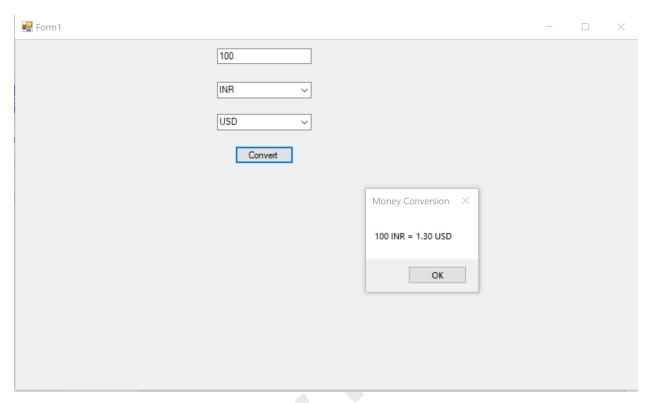
```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Ling;
using System. Text;
using System. Threading. Tasks;
using System. Windows. Forms;
namespace p1MagicConversion
  public partial class Form1 : Form
    public Form1()
       InitializeComponent();
    private void button1_Click(object sender, EventArgs e)
       int amt = Convert.ToInt32(textBox1.Text);
       double value = 0;
       if (comboBox1.Text == comboBox2.Text)
         MessageBox.Show("Conversion Formats can't be same", "Money
Conversion");
       else if (comboBox1.Text == "INR" && comboBox2.Text == "USD")
         value = amt * 0.013;
       else if (comboBox1.Text == "INR" && comboBox2.Text == "EUR")
         value = amt * 0.012;
       else if (comboBox1.Text == "USD" && comboBox2.Text == "INR")
         value = amt * 77.42;
```

```
} else if (comboBox1.Text == "USD" && comboBox2.Text == "EUR")
{
    value = amt * 0.95;
}
else if (comboBox1.Text == "EUR" && comboBox2.Text == "INR")
{
    value = amt * 81.96;
}
else if (comboBox1.Text == "EUR" && comboBox2.Text == "USD")
{
    value = amt * 1.05;
}

MessageBox.Show(amt + " " + comboBox1.Text + " = "+value.ToString("0.00")
+" "+ comboBox2.Text, "Money Conversion");
}
}
```

OUTPUT:





C) To convert temperature from Fahrenheit to Celsius or vice versa.

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

namespace p1Temperature
{
    public partial class Form1 : Form
    {
        public Form1()
        {
             InitializeComponent();
        }
}
```

```
DATE: 09/05/2022
ROLL NO: 24
```

```
private void button1_Click(object sender, EventArgs e)
{
    int temp = Int16.Parse(textBox1.Text);
    double value = 0;

    if (comboBox1.Text == "Fahrenheit")
    {
       value = (temp * 9 / 5) + 32;
       MessageBox.Show(value.ToString(), "Celsius to Fahrenheit");
    }

    if (comboBox1.Text == "Celsius")
    {
       value = (temp - 32) * 5 / 9;
       MessageBox.Show(value.ToString(), "Fahrenheit to Celsius");
    }
}

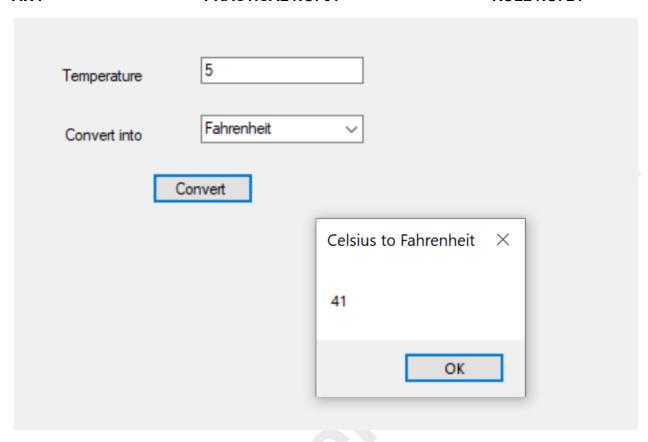
}

}
```

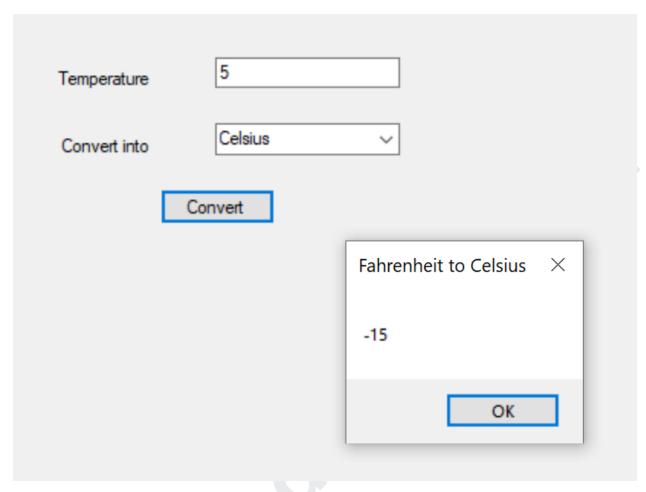
OUTPUT:

FYMCA-B AWT

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D) Create a Window application to calculate age of a person by providing input as birth date and current date. Current date and Birth date must be in long string format and display the age in terms of years

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

namespace p1Birthday
{
   public partial class Form1 : Form
```

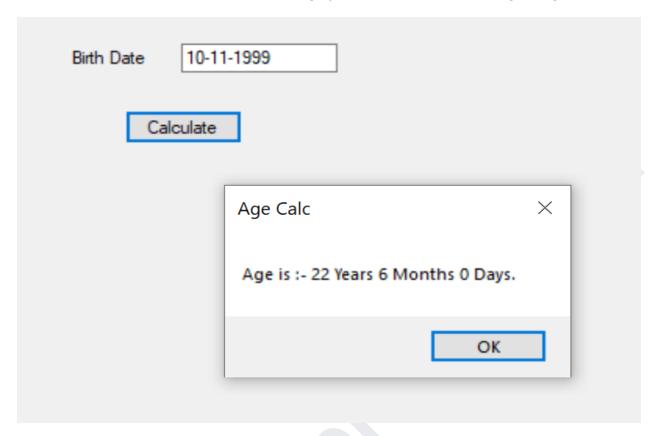
```
DATE: 09/05/2022
ROLL NO: 24
```

```
{
   public Form1()
   {
      InitializeComponent();
   }

   private void button1_Click(object sender, EventArgs e)
   {
      string textBox2 = Convert.ToString(DateTime.Now.ToLongDateString());
      DateTime bdate = Convert.ToDateTime(textBox1.Text);
      DateTime cdate = Convert.ToDateTime(textBox2);
      int years = (cdate.Year - bdate.Year) - 1;
      int months = 12 - Math.Abs(cdate.Month - bdate.Month);
      int days = cdate.Day - bdate.Day;

      MessageBox.Show("Age is :- " + years + " Years " + months + " Months " + days + " Days. ", "Age Calc");
   }
}
```

OUTPUT:



CONCLUSION:

From this practical, I have learned about the basics of windows forms with c#.