Visual Programming Lab

CSL-313

Lab Journal 6

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Class and Section: BS(CS)-5A

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Visual Programming

Lab Journal - Lab 06

Name: _____M. Anas Baig_____

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Objective

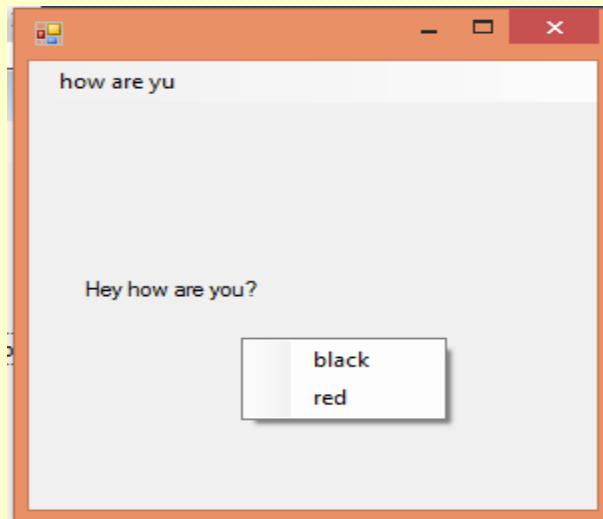The Objective of this lab are to understand the following concepts
- Menu Strip
- Main Menu
- Contextual Menu

Task 1 :

Implement the following exercises.

Exercise 1

Write a program that implements the examples program provided in the lab manual with the help of context menu illustration given below
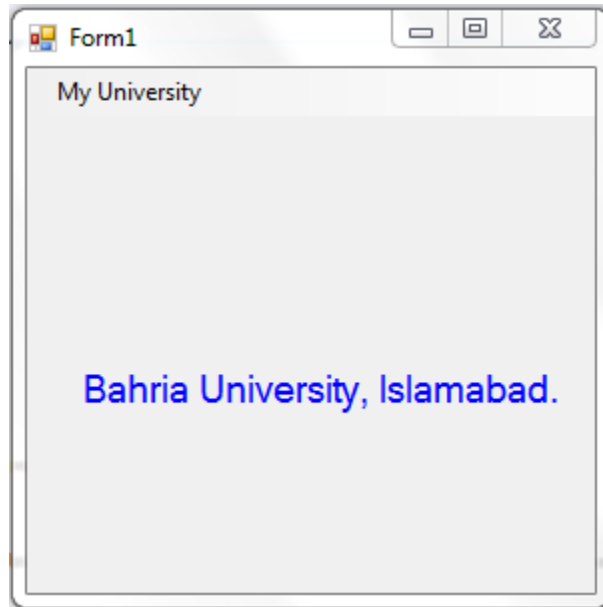

If the user click on the red menu then the colour of the Label text also changed to red and so on.

Source Code :

Form1.cs File :

```csharp
1.  using System;
2.  using System.Collections.Generic;
3.  using System.ComponentModel;
4.  using System.Data;
5.  using System.Drawing;
6.  using System.Linq;
7.  using System.Text;
8.  using System.Windows.Forms;
9.
10. namespace Lab6_Ex1
11. {
12.     public partial class Form1 : Form
13.     {
14.         public Form1()
15.         {
16.             InitializeComponent();
17.         }
18.
19.         private void bahriaUniversityToolStripMenuItem_Click(object sender, EventArgs e)
20.         {
21.             label1.ForeColor = Color.Blue;
22.         }
23.
24.         private void label1_Click(object sender, EventArgs e)
25.         {
26.
27.         }
28.
29.         private void blackToolStripMenuItem_Click(object sender, EventArgs e)
30.         {
31.             label1.ForeColor = Color.Black;
32.         }
33.
34.         private void redToolStripMenuItem_Click(object sender, EventArgs e)
35.         {
36.             label1.ForeColor = Color.Red;
37.         }
38.     }
39. }
```

Form Output :

Exercise 2

Write a Program that Implements the functionality of the following design given below

Create a menu strip which inlcudes on the car names and help menus. If the user click on any of the car name it will display the picture of that cars plus the details of the car mention at the buttom of the design picture and so on. The help menu includes overall description of the following design.
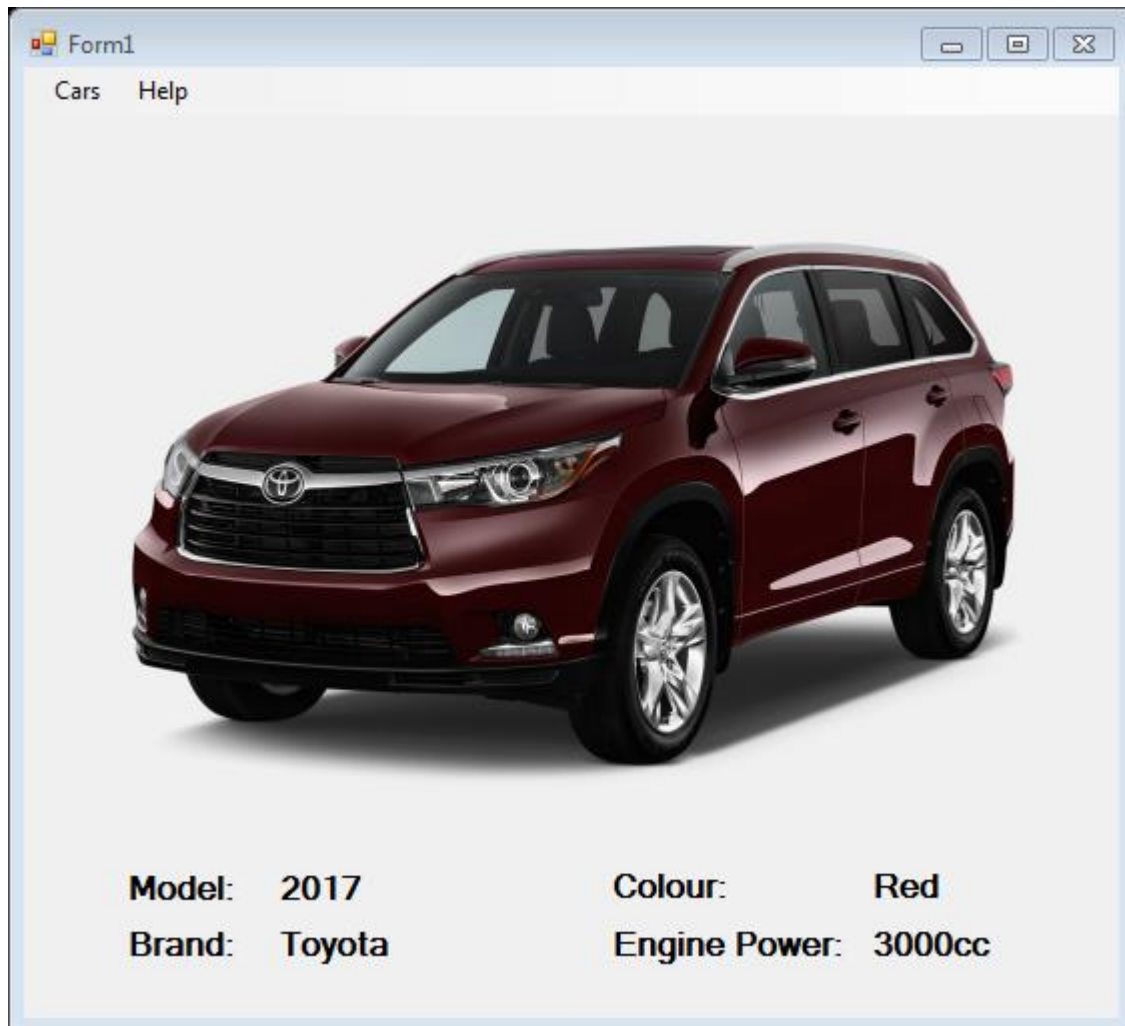
Source Code :

Form1.cs File :

```
1.  using System;
2.  using System.Collections.Generic;
3.  using System.ComponentModel;
4.  using System.Data;
5.  using System.Drawing;
6.  using System.Linq;
7.  using System.Text;
8.  using System.Windows.Forms;
9.
10. namespace Lab6_Ex2
11. {
12.     public partial class Form1 : Form
13.     {
14.         public Form1()
15.         {
16.             InitializeComponent();
17.         }
18.
19.         private void audiToolStripMenuItem_Click(object sender, EventArgs e)
20.         {
21.             pictureBox1.ImageLocation = "C:/Users/MABM/Desktop/1.png";
22.             label5.Text = "2016"; //model
23.             label6.Text = "Audi"; //brand
24.             label7.Text = "Black"; //colour
25.             label8.Text = "2500cc"; //engine power
26.         }
27.
28.         private void pictureBox1_Click(object sender, EventArgs e)
29.         {
30.
31.         }
32.
33.         private void mercedesToolStripMenuItem_Click(object sender, EventArgs e)
34.         {
35.             pictureBox1.ImageLocation = "C:/Users/MABM/Desktop/2.png";
36.             label5.Text = "2015"; //model
37.             label6.Text = "Mercedes"; //brand
38.             label7.Text = "Black"; //colour
39.             label8.Text = "3000cc"; //engine power
40.         }
41.
42.         private void toyotaToolStripMenuItem_Click(object sender, EventArgs e)
43.         {
44.             pictureBox1.ImageLocation = "C:/Users/MABM/Desktop/3.png";
45.             label5.Text = "2017"; //model
46.             label6.Text = "Toyota"; //brand
47.             label7.Text = "Red"; //colour
48.             label8.Text = "3000cc"; //engine power
49.         }
50.
51.         private void hondaToolStripMenuItem_Click(object sender, EventArgs e)
52.         {
53.             pictureBox1.ImageLocation = "C:/Users/MABM/Desktop/4.png";
```

```
54.            label5.Text = "2012"; //model
55.            label6.Text = "Honda"; //brand
56.            label7.Text = "Black"; //colour
57.            label8.Text = "3500cc"; //engine power
58.        }
59.    }
60. }
```

Form Output:

Exercise 3

> Write a program that implements the functionality of the following design illusterated below
>
>
>
> Create a menu strip which includes on different size matrices. Initially the textboxes are showing in the picture will be invisible. If the user click on any of the size matrices it will generate the matrices of that specific size i.e matrix 1 & 2. After that it asks the user to enter the values of these matrices. If the user click on the add radio button it will display the addition result of these two matrices in the 'Answer' Matrix and vice versa.

Source Code :

Form1.cs File :

```
1.  using System;
2.  using System.Collections.Generic;
3.  using System.ComponentModel;
4.  using System.Data;
5.  using System.Drawing;
6.  using System.Linq;
7.  using System.Text;
8.  using System.Windows.Forms;
9.
10. namespace Lab6_Ex3
11. {
12.     public partial class Form1 : Form
13.     {
14.         public Form1()
15.         {
16.             InitializeComponent();
17.             initialHide();
```

```csharp
18.         }
19.
20.         private void matrixToolStripMenuItem_Click(object sender, EventArgs e)
21.         {
22.
23.         }
24.
25.         private void Form1_Load(object sender, EventArgs e)
26.         {
27.
28.         }
29.
30.         private void radioButton1_CheckedChanged(object sender, EventArgs e)
31.         {
32.             textBox19.Text = Convert.ToString(int.Parse(textBox1.Text) + int.Parse(textBox10.Text));
33.             textBox20.Text = Convert.ToString(int.Parse(textBox2.Text) + int.Parse(textBox11.Text));
34.             textBox21.Text = Convert.ToString(int.Parse(textBox3.Text) + int.Parse(textBox12.Text));
35.             textBox22.Text = Convert.ToString(int.Parse(textBox4.Text) + int.Parse(textBox13.Text));
36.             textBox23.Text = Convert.ToString(int.Parse(textBox5.Text) + int.Parse(textBox14.Text));
37.             textBox24.Text = Convert.ToString(int.Parse(textBox6.Text) + int.Parse(textBox15.Text));
38.             textBox25.Text = Convert.ToString(int.Parse(textBox7.Text) + int.Parse(textBox16.Text));
39.             textBox26.Text = Convert.ToString(int.Parse(textBox8.Text) + int.Parse(textBox17.Text));
40.             textBox27.Text = Convert.ToString(int.Parse(textBox9.Text) + int.Parse(textBox18.Text));
41.         }
42.
43.         private void x2MatrixToolStripMenuItem_Click(object sender, EventArgs e)
44.         {
45.             initialHide();
46.             textBox1.Show(); textBox2.Show(); textBox4.Show(); textBox5.Show();
47.             textBox10.Show(); textBox11.Show(); textBox13.Show(); textBox14.Show();
48.             textBox19.Show(); textBox20.Show(); textBox22.Show(); textBox23.Show();
49.         }
50.
51.         private void x3MatrixToolStripMenuItem_Click(object sender, EventArgs e)
52.         {
53.             initialHide();
54.             textBox1.Show(); textBox2.Show(); textBox3.Show(); textBox4.Show(); textBox5.Show(); textBox6.Show(); textBox7.Show(); textBox8.Show(); textBox9.Show(); textBox10.Show(); textBox11.Show(); textBox12.Show(); textBox13.Show(); textBox14.Show(); textBox15.Show(); textBox16.Show(); textBox17.Show(); textBox18.Show(); textBox19.Show(); textBox20.Show(); textBox21.Show(); textBox22.Show(); textBox23.Show(); textBox24.Show(); textBox25.Show(); textBox26.Show(); textBox27.Show();
55.         }
56.
57.         public void initialHide()
58.         {
59.             textBox1.Hide();textBox2.Hide();textBox3.Hide();textBox4.Hide();textBox5.Hide();textBox6.Hide();textBox7.Hide();textBox8.Hide();textBox9.Hide();textBox10.Hide();textBox11.Hide();textBox12.Hide();textBox13.Hide();textBox14.Hide();textBox15.Hide();textBox16.Hide();textBox17.Hide();textBox18.Hide();textBox19.Hide();textBox20.Hide();textBox21.Hide();textBox22.Hide();textBox23.Hide();textBox24.Hide();textBox25.Hide();textBox26.Hide();textBox27.Hide();
```

```
60.
61.          }
62.
63.          private void textBox10_TextChanged(object sender, EventArgs e)
64.          {
65.
66.          }
67.
68.          private void radioButton2_CheckedChanged(object sender, EventArgs e)
69.          {
70.              textBox19.Text = Convert.ToString(int.Parse(textBox1.Text) - int.Parse(text
     Box10.Text));
71.              textBox20.Text = Convert.ToString(int.Parse(textBox2.Text) - int.Parse(text
     Box11.Text));
72.              textBox21.Text = Convert.ToString(int.Parse(textBox3.Text) - int.Parse(text
     Box12.Text));
73.              textBox22.Text = Convert.ToString(int.Parse(textBox4.Text) - int.Parse(text
     Box13.Text));
74.              textBox23.Text = Convert.ToString(int.Parse(textBox5.Text) - int.Parse(text
     Box14.Text));
75.              textBox24.Text = Convert.ToString(int.Parse(textBox6.Text) - int.Parse(text
     Box15.Text));
76.              textBox25.Text = Convert.ToString(int.Parse(textBox7.Text) - int.Parse(text
     Box16.Text));
77.              textBox26.Text = Convert.ToString(int.Parse(textBox8.Text) - int.Parse(text
     Box17.Text));
78.              textBox27.Text = Convert.ToString(int.Parse(textBox9.Text) - int.Parse(text
     Box18.Text));
79.          }
80.
81.          private void radioButton3_CheckedChanged(object sender, EventArgs e)
82.          {
83.              textBox19.Text = Convert.ToString((int.Parse(textBox1.Text)*int.Parse(textB
     ox10.Text))+(int.Parse(textBox2.Text)*int.Parse(textBox13.Text))+(int.Parse(textBox3.Te
     xt)*int.Parse(textBox16.Text)));
84.              textBox20.Text = Convert.ToString((int.Parse(textBox1.Text)*int.Parse(textB
     ox11.Text))+(int.Parse(textBox2.Text)*int.Parse(textBox14.Text))+(int.Parse(textBox3.Te
     xt)*int.Parse(textBox17.Text)));
85.              textBox21.Text = Convert.ToString((int.Parse(textBox1.Text)*int.Parse(textB
     ox12.Text))+(int.Parse(textBox2.Text)*int.Parse(textBox15.Text))+(int.Parse(textBox3.Te
     xt)*int.Parse(textBox18.Text)));
86.              textBox22.Text = Convert.ToString((int.Parse(textBox4.Text)*int.Parse(textB
     ox10.Text))+(int.Parse(textBox5.Text)*int.Parse(textBox13.Text))+(int.Parse(textBox6.Te
     xt)*int.Parse(textBox16.Text)));
87.              textBox23.Text = Convert.ToString((int.Parse(textBox4.Text)*int.Parse(textB
     ox11.Text))+(int.Parse(textBox5.Text)*int.Parse(textBox14.Text))+(int.Parse(textBox6.Te
     xt)*int.Parse(textBox17.Text)));
88.              textBox24.Text = Convert.ToString((int.Parse(textBox4.Text)*int.Parse(textB
     ox12.Text))+(int.Parse(textBox5.Text)*int.Parse(textBox15.Text))+(int.Parse(textBox6.Te
     xt)*int.Parse(textBox18.Text)));
89.              textBox25.Text = Convert.ToString((int.Parse(textBox7.Text)*int.Parse(textB
     ox10.Text))+(int.Parse(textBox8.Text)*int.Parse(textBox13.Text))+(int.Parse(textBox9.Te
     xt)*int.Parse(textBox16.Text)));
90.              textBox26.Text = Convert.ToString((int.Parse(textBox7.Text)*int.Parse(textB
     ox11.Text))+(int.Parse(textBox8.Text)*int.Parse(textBox14.Text))+(int.Parse(textBox9.Te
     xt)*int.Parse(textBox17.Text)));
91.              textBox27.Text = Convert.ToString((int.Parse(textBox7.Text) * int.Parse(tex
     tBox11.Text)) + (int.Parse(textBox8.Text) * int.Parse(textBox15.Text)) + (int.Parse(tex
     tBox9.Text) * int.Parse(textBox18.Text)));
92.          }
93.
```

```
94.          private void menuStrip1_ItemClicked(object sender, ToolStripItemClickedEventArg
    s e)
95.          {
96.
97.          }
98.      }
99. }
```

Form Output:

Implement the given exercises and get them checked by your instructor. If you are unable to complete the tasks in the lab session, deposit this journal alongwith your programs (printed or handwritten) before the start of the next lab session.

S No.	Exercise	Checked By:
1.	Exercise 1	
2.	Exercise 2	
3.	Exercise 3	