Name: Richard Cubia
Section: BSIT-402

1. Screenshot of the design:
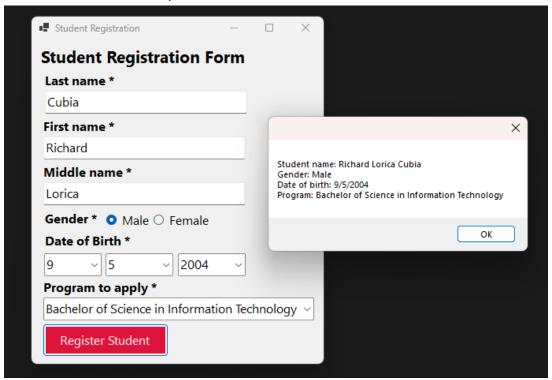

2. Screenshot of the code:

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```csharp
            };

            foreach (string month in months)
            {
                Month.Items.Add(month);
            }
        }

        1 reference
        private void Day_SelectedIndexChanged(object sender, EventArgs e)
        {
            for (int day = 0; day < 31; day++)
            {
                Day.Items.Add(day);
            }
        }

        1 reference
        private void comboBox4_SelectedIndexChanged(object sender, EventArgs e)
        {
            ArrayList programs = new ArrayList
            {
                "Bachelor of Science in Computer Science",
                "Bachelor of Science in Information Technology",
                "Bachelor of Science in Information Systems",
                "Bachelor of Science in Computer Engineering"
            };

            foreach (string program in programs)
            {
                Program.Items.Add(program);
            }
        }

        1 reference
        private void button1_Click(object sender, EventArgs e)
        {
            string LastName = Lname.Text;
            string FirstName = Fname.Text;
            string MiddleName = Mname.Text;
            string day = Day.SelectedItem?.ToString() ?? string.Empty;
            string month = Month.SelectedItem?.ToString() ?? string.Empty;
            string year = Year.SelectedItem?.ToString() ?? string.Empty;
            string program = Program.SelectedItem?.ToString() ?? string.Empty;
            string gender;
            if (Male.Checked)
            {
                gender = "Male";
            }
            else
```

```csharp
                "Bachelor of Science in Computer Engineering"
            };

            foreach (string program in programs)
            {
                Program.Items.Add(program);
            }
        }

        1 reference
        private void button1_Click(object sender, EventArgs e)
        {
            string LastName = Lname.Text;
            string FirstName = Fname.Text;
            string MiddleName = Mname.Text;
            string day = Day.SelectedItem?.ToString() ?? string.Empty;
            string month = Month.SelectedItem?.ToString() ?? string.Empty;
            string year = Year.SelectedItem?.ToString() ?? string.Empty;
            string program = Program.SelectedItem?.ToString() ?? string.Empty;
            string gender;
            if (Male.Checked)
            {
                gender = "Male";
            }
            else
            {
                gender = "Female";
            }

            if (string.IsNullOrEmpty(LastName) || string.IsNullOrEmpty(FirstName) ||
                string.IsNullOrEmpty(day) || string.IsNullOrEmpty(month) || string.IsNullOrEmpty(year))
            {
                MessageBox.Show("Please fill in all fields.", "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
                return;
            }
            string message = "Student name: " + FirstName + " " + MiddleName + " " + LastName +
"\nGender: " + gender + "\nDate of birth: " + day + "/" + month + "/" + year + "\nProgram: " + program;
            MessageBox.Show(message);
        }

        1 reference
        private void Fname_TextChanged(object sender, EventArgs e)
        {

        }
    }
}
```

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3. Screenshot of the output:

4. Code:
```
using System.Collections;
using System.Xml.Linq;
using Microsoft.VisualBasic.ApplicationServices;
namespace StudentRegistrationApplication
{
  public partial class Form1 : Form
  {
    public Form1()
    {
      InitializeComponent();
    }

    private void Form1_Load(object sender, EventArgs e)
    {

    }

    private void Year_SelectedIndexChanged(object sender, EventArgs e)
    {
      int Years = DateTime.Now.Year;
```

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```csharp
        for (int year = 1900; year <= Years; year++)
        {
            Year.Items.Add(year);
        }
    }

    private void Month_SelectedIndexChanged(object sender, EventArgs e)
    {
        string[] months = {
            "January", "February", "March", "April",
            "May", "June", "July", "August",
            "September", "October", "November", "December"
        };

        foreach (string month in months)
        {
            Month.Items.Add(month);
        }
    }

    private void Day_SelectedIndexChanged(object sender, EventArgs e)
    {
        for (int day = 0; day < 31; day++)
        {
            Day.Items.Add(day);
        }
    }

    private void comboBox4_SelectedIndexChanged(object sender, EventArgs e)
    {
        ArrayList programs = new ArrayList
        {
            "Bachelor of Science in Computer Science",
            "Bachelor of Science in Information Technology",
            "Bachelor of Science in Information Systems",
            "Bachelor of Science in Computer Engineering"
        };

        foreach (string program in programs)
        {
            Program.Items.Add(program);
        }
    }
```

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```csharp
    private void button1_Click(object sender, EventArgs e)
    {
      string LastName = Lname.Text;
      string FirstName = Fname.Text;
      string MiddleName = Mname.Text;
      string day = Day.SelectedItem?.ToString() ?? string.Empty;
      string month = Month.SelectedItem?.ToString() ?? string.Empty;
      string year = Year.SelectedItem?.ToString() ?? string.Empty;
      string program = Program.SelectedItem?.ToString() ?? string.Empty;
      string gender;
      if (Male.Checked)
      {
        gender = "Male";
      }
      else
      {
        gender = "Female";
      }

      if (string.IsNullOrEmpty(LastName) || string.IsNullOrEmpty(FirstName) ||
          string.IsNullOrEmpty(day) || string.IsNullOrEmpty(month) ||
string.IsNullOrEmpty(year))
      {
        MessageBox.Show("Please fill in all fields.", "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error);
        return;
      }
      string message = "Student name: " + FirstName + " " + MiddleName + " " + LastName +
    "\nGender: " + gender + "\nDate of birth: " + day + "/" + month + "/" + year + "\nProgram: "
+ program;
      MessageBox.Show(message);
    }

    private void Fname_TextChanged(object sender, EventArgs e)
    {

    }
  }
}
```

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5. Flowchart:

```
                        ┌─────────┐
                        │  Start  │
                        └─────────┘
                             │
                             ▼
                    ╱──────────────────╲
                   ╱  Input last name,  ╲
                  ╱     first name,      ╲
                  ╲   & Middle name      ╱
                   ╲────────────────────╱
                             │
                             ▼
                         ╱───────╲
                        ╱ If male ╲
                        ╲ is      ╱
                        ╲ checked╱
                         ╲───────╱
              ┌──────────────┴──────────────┐
              ▼                              ▼
      ╱───────────────╲              ╱────────────────╲
     ╱  Gender = male  ╲            ╱  Gender = female  ╲
     ╲─────────────────╱            ╲──────────────────╱
              └──────────────┬──────────────┘
                             ▼
                    ╱──────────────────╲
                   ╱  Input date of      ╲
                  ╱   birth:              ╲
                  ╲   day/month/year      ╱
                   ╲────────────────────╱
                             │
                             ▼
                   ╱──────────────────────╲
                  ╱  Input selected program ╲
                  ╲────────────────────────╱
                             │
                             ▼
                   ┌──────────────────────┐
                   │ User clicks the button│
                   └──────────────────────┘
                             │
                             ▼
                    ╱──────────────────╲
                   ╱  Display message    ╲
                   ╲────────────────────╱
                             │
                             ▼
                        ┌─────────┐
                        │   End   │
                        └─────────┘
```