

**MS806 – Business Application Programming**

**Student Name: Varun Dua**

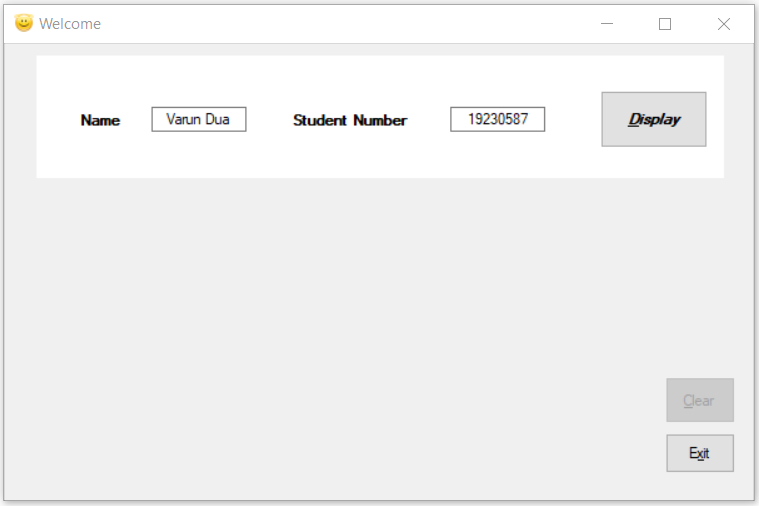
**NUI Galway ID Number: 19230587**

**Assignment:** 1

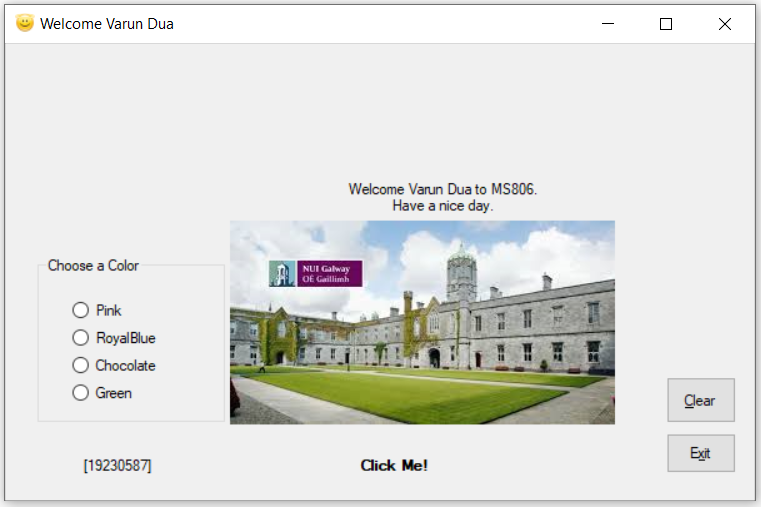
**Date of Submission:** 26/09/2019

**Assignment 1: Welcome App**

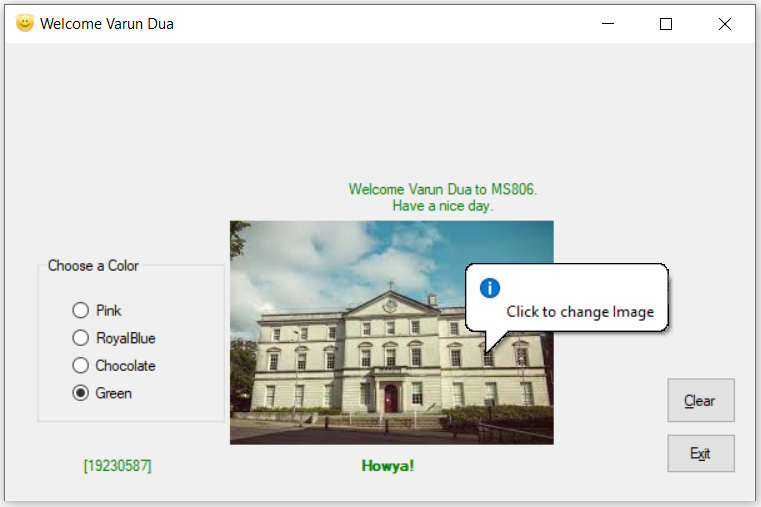
**Screen shots of Application at Runtime:**



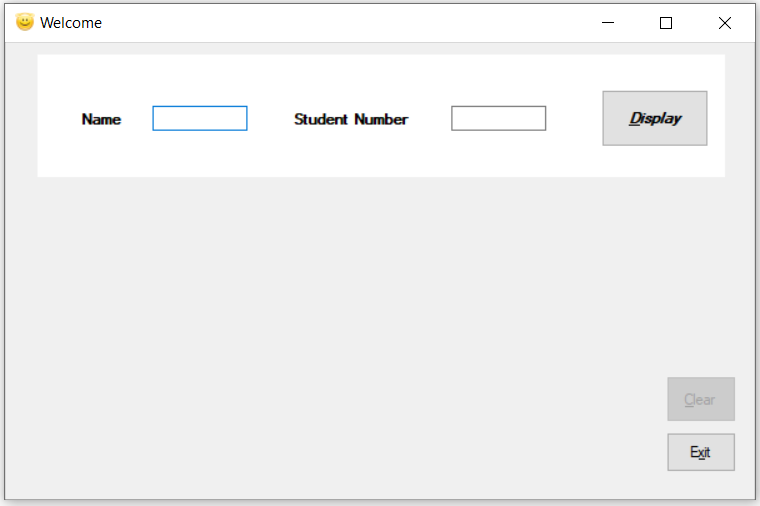
**Fig 1: Project after load, User has input Name and Student Number**



**Fig 2: After Display button is clicked**



**Fig 3: User clicked on image, and has selected the Green radio button**



**Fig 4: User clicked on Clear button**

**Source Code:**

/\* Student Name: Varun Dua

\* Student ID: 19230587

\* Date: 23/09/2019

\* Assignment: 1

\* Assignment: Write a program that allows a user to input their name

\* and student number, when the display button is clicked a message

\* of your own choosing is displayed which includes the users name in a label.

\*/

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 Assignment1

{

public partial class WelcomePage : System.Windows.Forms.Form

{

int count = 0; //Counter for the number of clicks on the image.

public WelcomePage()

{

InitializeComponent();

NameBox.Select(); //Set focus on the Name text box

}

/\*Event handler to display Welcome Home page once the application is loaded. Access keys

\* are used for Display, Clear and Exit buttons. Clear button is disabled and Image and certain other

\* elements are made not visible.\*/

private void WelcomeScreen\_Load(object sender, EventArgs e)

{

DisplayButton.Text = "&Display";

ClearButton.Text = "&Clear";

ExitButton.Text = "E&xit";

ClearButton.Enabled = false;

ImageBox.Visible = false;

MessageLabel.Visible = false;

IdLabel.Visible = false;

ColorBox.Visible = false;

PicLabel.Visible = false;

}

/\*Welcome Panel background color is set to White. Panel contains Labels for Name, Student number

\* and text boxes for the same, along with Display button.\*/

private void Panel1\_Paint(object sender, PaintEventArgs e)

{

WelcomePanel.BackColor = Color.White;

}

/\*Event handler for Exit button\*/

private void ExitButton\_Click(object sender, EventArgs e)

{

this.Close();

}

/\*Event handler to change the image and label in the Picture box on a click. It uses the counter (count)

\* initilaized above to keep track of the number of clicks on the image,

\* and thus change the image and label accordingly.\*/

private void ImageBox\_Click(object sender, EventArgs e)

{

Image def = Image.FromFile(@"D:\Business Application Programming\Class programs\Assignment1\Assignment1\Resources\Im1.jpg");

Image chg = Image.FromFile(@"D:\Business Application Programming\Class programs\Assignment1\Assignment1\Resources\Im2.jpg");

String LabelDef = "Click Me!";

String LabelChg = "Howya!";

if (count == 0)

{

ImageBox.Image = chg;

PicLabel.Text = LabelChg;

count++;

}

else if(count%2!=0)

{

ImageBox.Image = def;

PicLabel.Text = LabelDef;

count++;

}

else

{

ImageBox.Image = chg;

PicLabel.Text = LabelChg;

count++;

}

}

/\*Event handler to Display Image, Message labels and Radio buttons on click of Display button\*/

private void DisplayButton\_Click(object sender, EventArgs e)

{

WelcomePanel.Visible = false;

ImageBox.Visible = true;

MessageLabel.Visible = true;

IdLabel.Visible = true;

ColorBox.Visible = true;

PicLabel.Visible = true;

ClearButton.Enabled = true;

String StdName = NameBox.Text.ToString();

String StdNum = StudentIdBox.Text.ToString();

MessageLabel.Text = "Welcome " + StdName + " to MS806.\nHave a nice day.";

IdLabel.Text = "[" + StdNum + "]";

WelcomePage.ActiveForm.Text = "Welcome " + StdName;

}

/\*Pink button Event handler\*/

private void PinkButton\_CheckedChanged(object sender, EventArgs e)

{

MessageLabel.ForeColor = Color.Pink;

IdLabel.ForeColor = Color.Pink;

PicLabel.ForeColor = Color.Pink;

}

/\*Royal Blue button Event handler\*/

private void RoyalBlueButton\_CheckedChanged(object sender, EventArgs e)

{

MessageLabel.ForeColor = Color.RoyalBlue;

IdLabel.ForeColor = Color.RoyalBlue;

PicLabel.ForeColor = Color.RoyalBlue;

}

/\*Chocolate button Event handler\*/

private void ChocolateButton\_CheckedChanged(object sender, EventArgs e)

{

MessageLabel.ForeColor = Color.Chocolate;

IdLabel.ForeColor = Color.Chocolate;

PicLabel.ForeColor = Color.Chocolate;

}

/\*Green button Event handler\*/

private void GreenButton\_CheckedChanged(object sender, EventArgs e)

{

MessageLabel.ForeColor = Color.Green;

IdLabel.ForeColor = Color.Green;

PicLabel.ForeColor = Color.Green;

}

/\*Event handler to Clear Image, Message labels and Radio buttons, and display the welcome page

\* on click of Clear button\*/

private void ClearButton\_Click(object sender, EventArgs e)

{

ChocolateButton.Checked = false;

PinkButton.Checked = false;

RoyalBlueButton.Checked = false;

GreenButton.Checked = false;

ClearButton.Enabled = false;

ImageBox.Visible = false;

MessageLabel.Visible = false;

IdLabel.Visible = false;

ColorBox.Visible = false;

PicLabel.Visible = false;

WelcomePanel.Visible = true;

MessageLabel.ForeColor = Color.Black;

IdLabel.ForeColor = Color.Black;

PicLabel.ForeColor = Color.Black;

NameBox.Text = null;

StudentIdBox.Text = null;

WelcomePage.ActiveForm.Text = "Welcome";

ImageBox.Image = Image.FromFile(@"D:\Business Application Programming\Class programs\Assignment1\Assignment1\Resources\Im1.jpg");

PicLabel.Text = "Click Me!"; //Change the image back to original image

count = 0;

NameBox.Select(); //Set focus on the Name text box

}

}

}