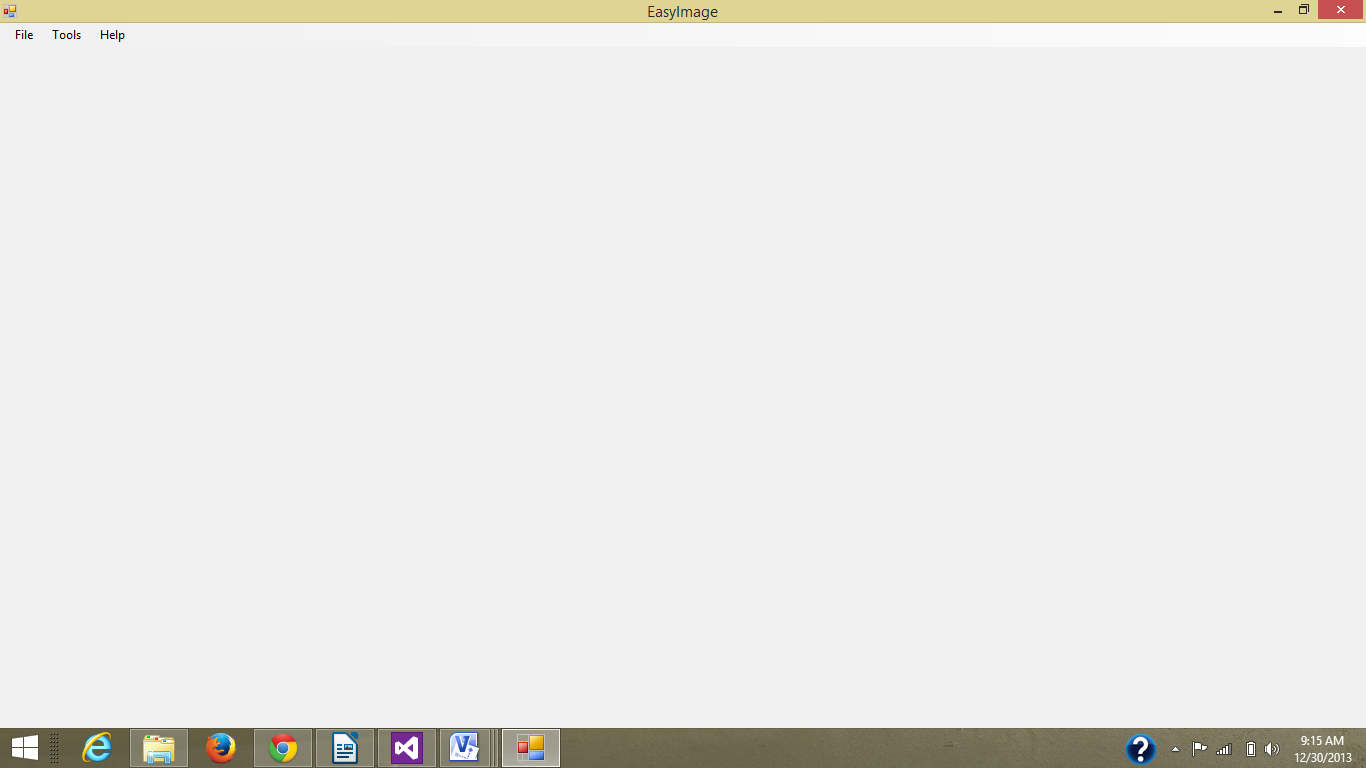
Chapter # 6 Implementation



using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Text;

using System.Windows.Forms;

namespace ImageComparison

{

public partial class MainForm : Form

{

public MainForm()

{

InitializeComponent();

}

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

{

Form fr = new Form1();

fr.ShowDialog();

}

private void grayScaleToolStripMenuItem\_Click\_1(object sender, EventArgs e)

{

Form fr = new GScale();

fr.ShowDialog();

}

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

{

Form fr = new Crop();

fr.ShowDialog();

}

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

{

this.Close();

}

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

{

Form fr = new FreeHand();

fr.ShowDialog();

}

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

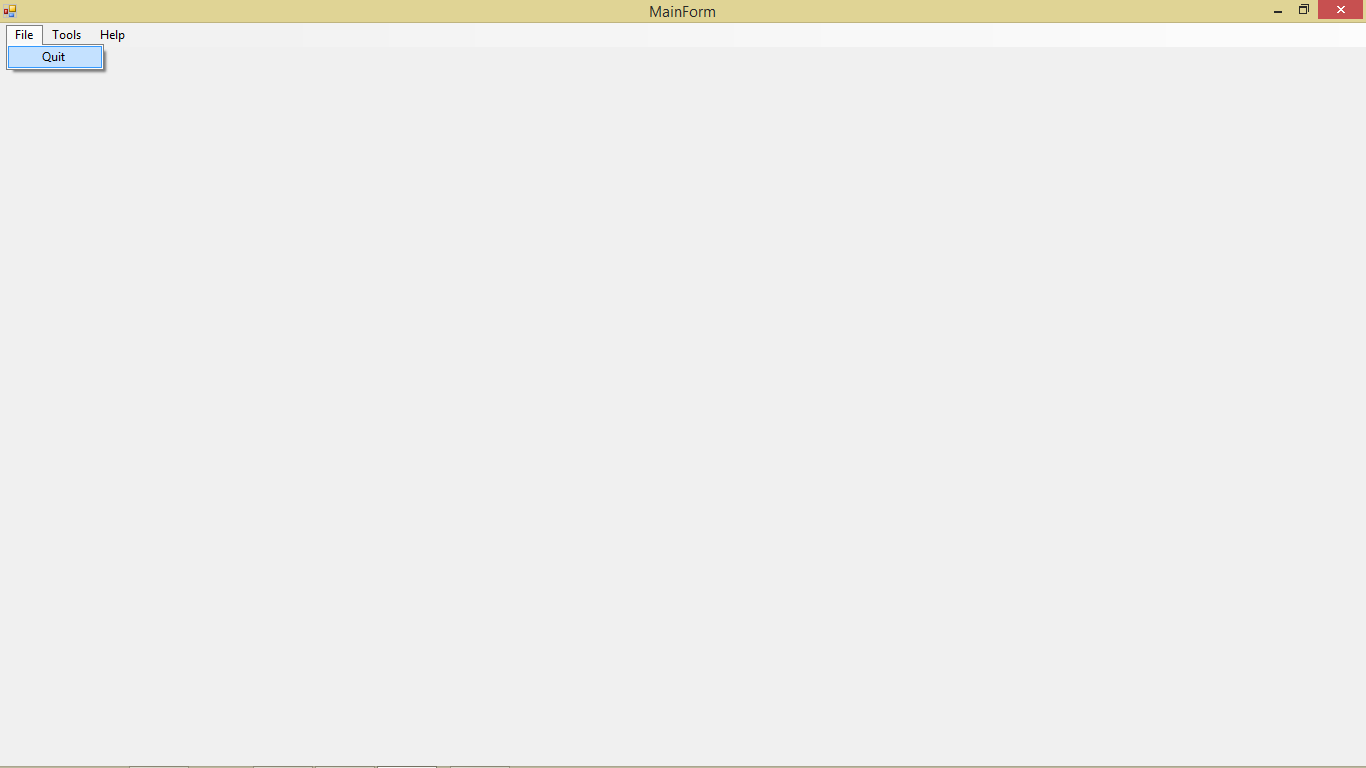
{

MessageBox.Show("EasyImage by Waleed khan Contact@ netprodigy@hotmail.com for assistance ");

}

}

}

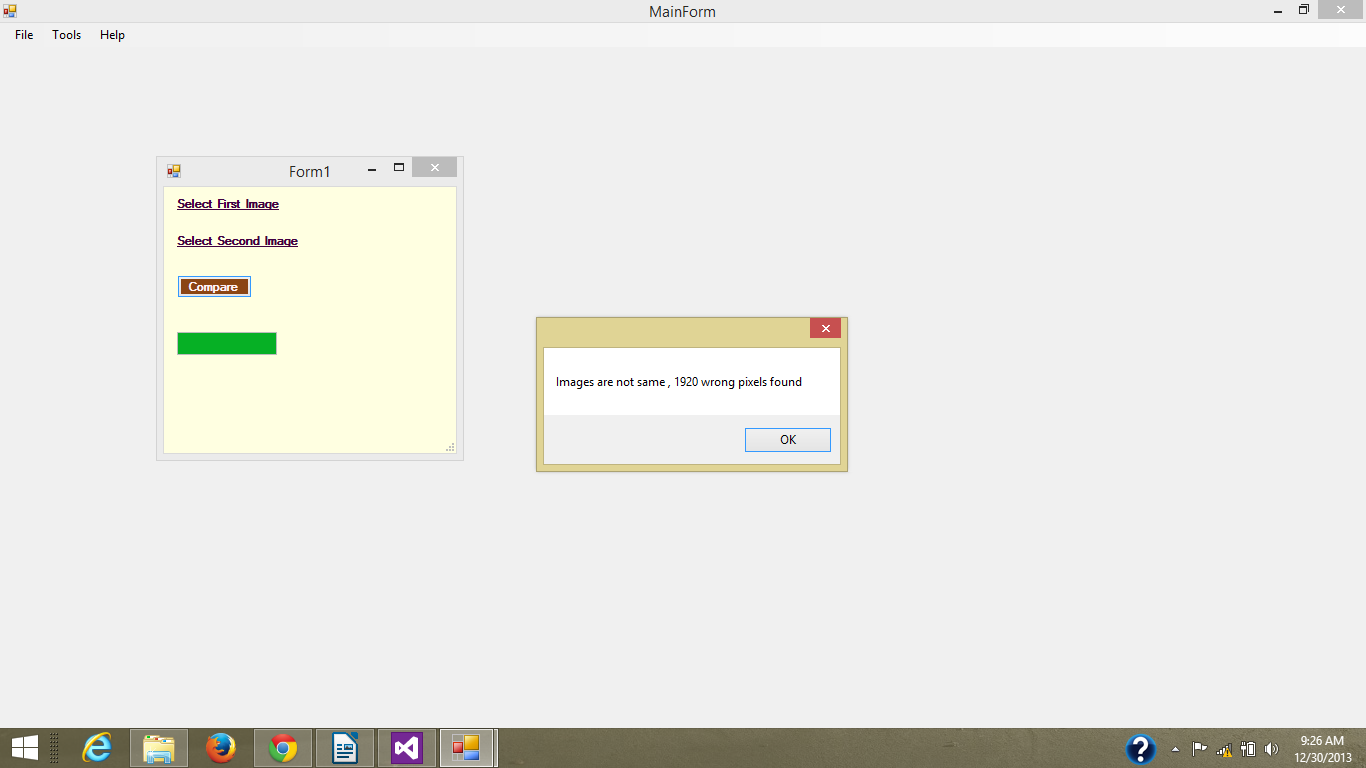


private void quitToolStripMenuItem\_Click(object sender, EventArgs e)

{

this.Close();

}

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Text;

using System.Windows.Forms;

using System.IO;

namespace ImageComparison

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

static string fname1, fname2;

Bitmap img1, img2;

int count1 = 0, count2 = 0;

bool flag = true;

private void Form1\_Load(object sender, EventArgs e)

{

progressBar1.Visible = false;

pictureBox1.Visible = false;

}

private void linkLabel1\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

openFileDialog1.FileName = "";

openFileDialog1.Title = "Images";

openFileDialog1.Filter = "All Images|\*.jpg; \*.bmp; \*.png";

openFileDialog1.ShowDialog();

if (openFileDialog1.FileName.ToString() != "")

{

fname1 = openFileDialog1.FileName.ToString();

}

}

private void linkLabel2\_LinkClicked(object sender, LinkLabelLinkClickedEventArgs e)

{

openFileDialog2.FileName = "";

openFileDialog2.Title = "Images";

openFileDialog2.Filter = "All Images|\*.jpg; \*.bmp; \*.png";

openFileDialog2.ShowDialog();

if (openFileDialog2.FileName.ToString() != "")

{

fname2 = openFileDialog2.FileName.ToString();

}

}

private void button1\_Click(object sender, EventArgs e)

{

progressBar1.Visible = true;

string img1\_ref, img2\_ref;

img1 = new Bitmap(fname1);

img2 = new Bitmap(fname2);

progressBar1.Maximum = img1.Width;

if (img1.Width == img2.Width && img1.Height == img2.Height)

{

for (int i = 0; i < img1.Width; i++)

{

for (int j = 0; j < img1.Height; j++)

{

img1\_ref = img1.GetPixel(i, j).ToString();

img2\_ref = img2.GetPixel(i, j).ToString();

if (img1\_ref != img2\_ref)

{

count2++;

flag = false;

break;

}

count1++;

}

progressBar1.Value++;

}

if (flag == false)

MessageBox.Show("Images are not same , " + count2 + " wrong pixels found");

else

MessageBox.Show(" Images are same , " + count1 + " same pixels found and " + count2 + " wrong pixels found");

}

else

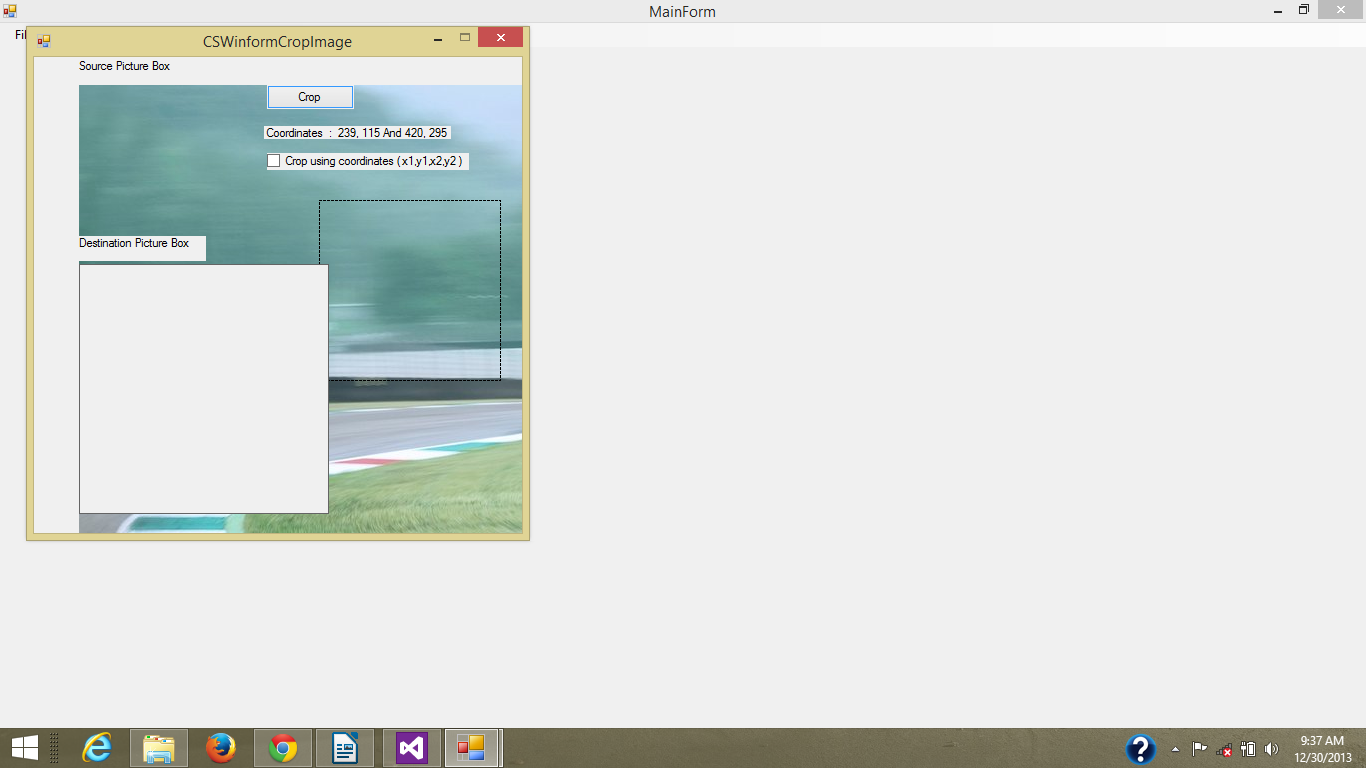
MessageBox.Show("can not compare these images");

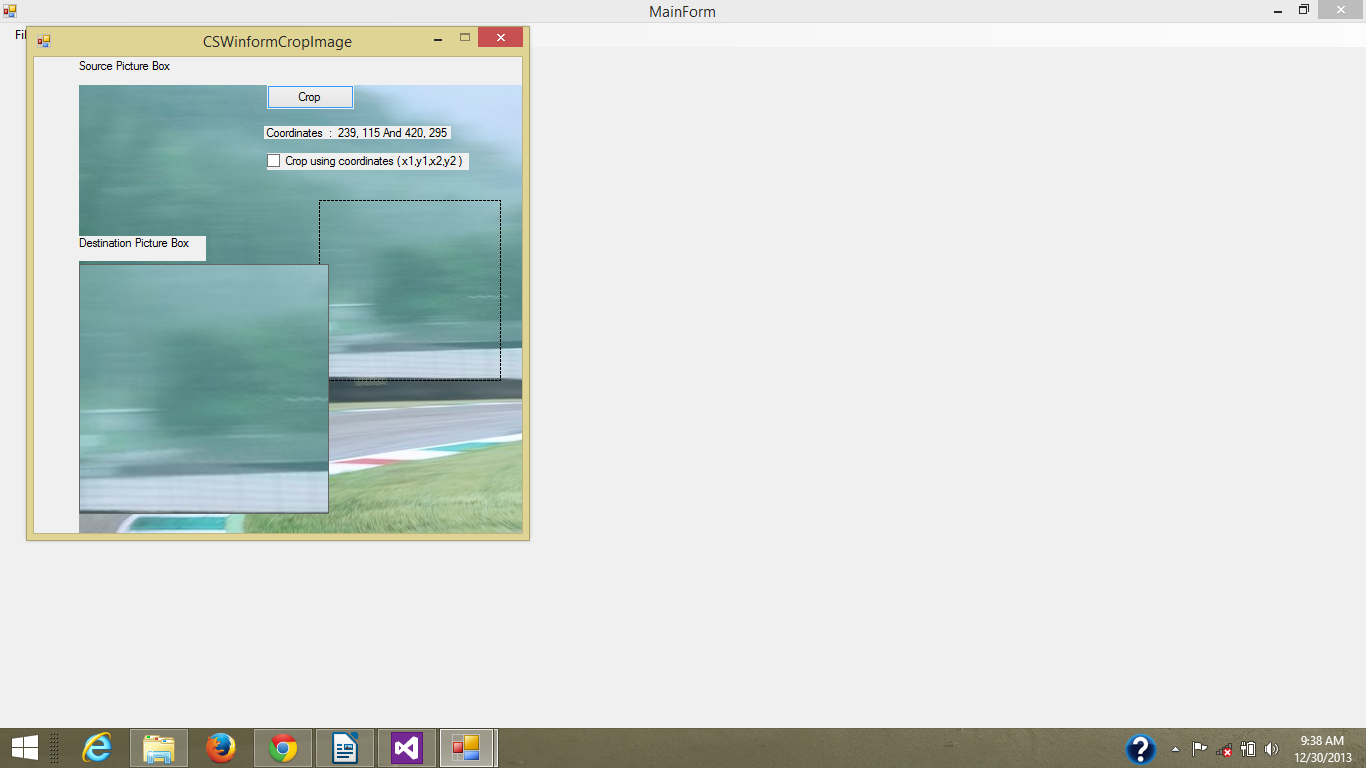
this.Dispose();

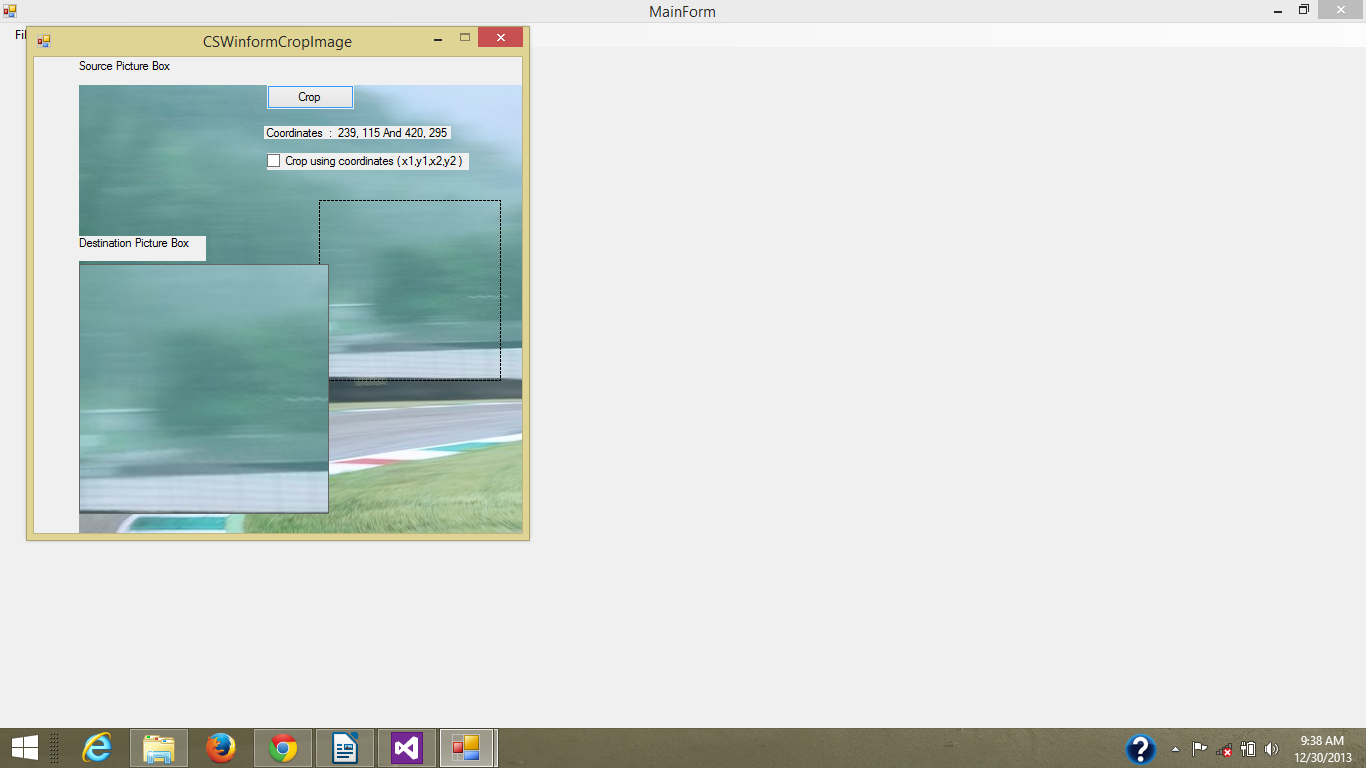
}

}

}







![](data:None;base64,)

public Bitmap RotateImage(Bitmap img)

{

var bmp = new Bitmap(img);

using (Graphics gfx = Graphics.FromImage(bmp))

{

gfx.Clear(Color.White);

gfx.DrawImage(img, 0, 0, img.Width, img.Height);

}

bmp.RotateFlip(RotateFlipType.Rotate270FlipNone);

return bmp;

}

private void button1\_Click(object sender, EventArgs e)

{

Bitmap bmp = new Bitmap(pictureBox3.Image);

//MakeGrayscale(bmp);

pictureBox4.Image = MakeGrayscale(bmp);

}

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

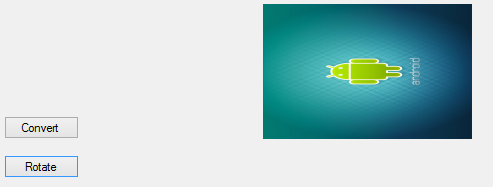
{

Bitmap bmp = new Bitmap(pictureBox3.Image);

pictureBox3.Image = RotateImage(bmp);

}

}



public static Bitmap MakeGrayscale(Bitmap original)

{

//make an empty bitmap the same size as original

Bitmap newBitmap = new Bitmap(original.Width, original.Height);

for (int i = 0; i < original.Width; i++)

{

for (int j = 0; j < original.Height; j++)

{

//get the pixel from the original image

Color originalColor = original.GetPixel(i, j);

//create the grayscale version of the pixel

int grayScale = (int)((originalColor.R \* .3) + (originalColor.G \* .59)

+ (originalColor.B \* .11));

//create the color object

Color newColor = Color.FromArgb(grayScale, grayScale, grayScale);

//set the new image's pixel to the grayscale version

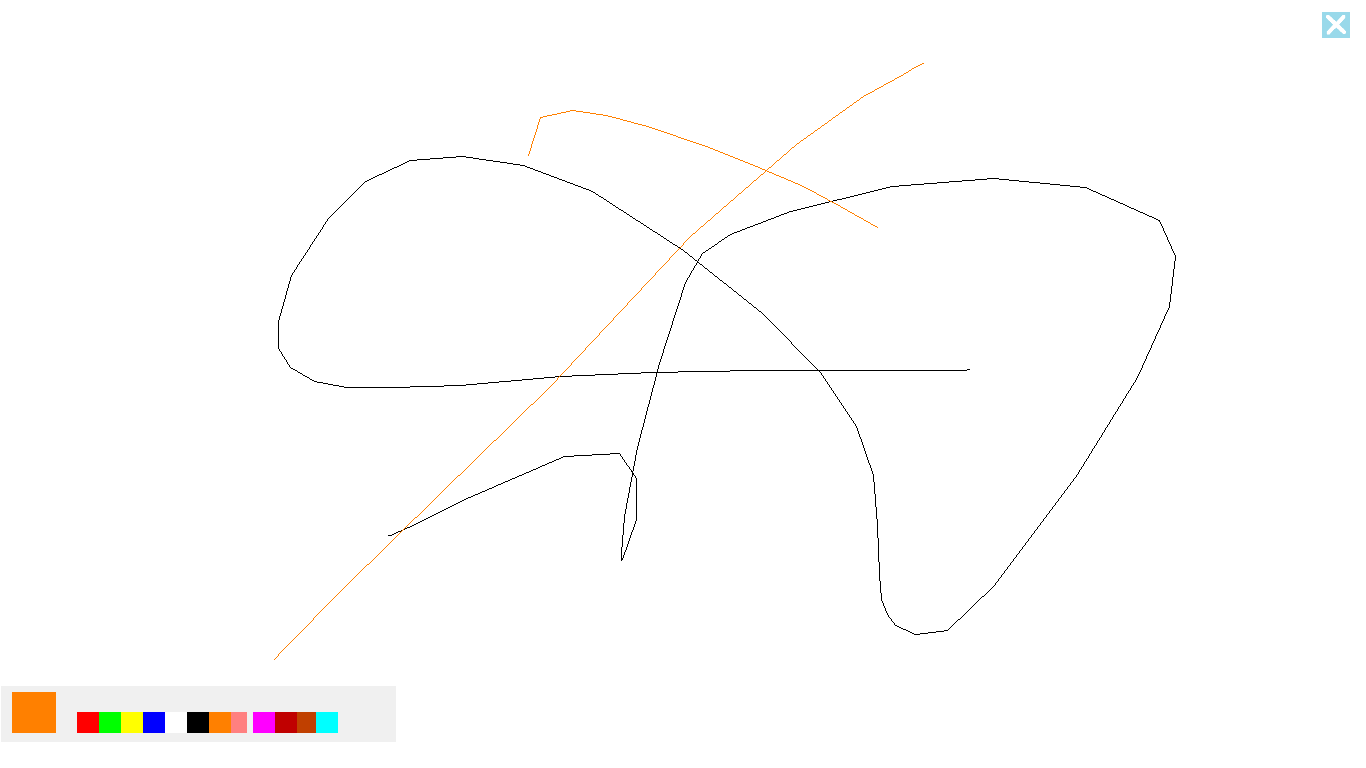
newBitmap.SetPixel(i, j, newColor);

}

}

return newBitmap;

}



using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Text;

using System.Windows.Forms;

namespace ImageComparison

{

public partial class FreeHand : Form

{

Graphics Graphic;//this class contains methods for drawing shapes and other stuff such as drawLine etc

Pen myPen = new Pen(Color.Black,1);

Point ep = new Point(0,0);

Point sp = new Point(0,0);

int k = 0;

public FreeHand()

{

InitializeComponent();

}

private void Form1\_MouseDown(object sender, MouseEventArgs e)

{

sp = e.Location;

if(e.Button==MouseButtons.Left){

k = 1;

}

}

private void Form1\_MouseMove(object sender, MouseEventArgs e)

{

if(k==1){

ep = e.Location;

Graphic = this.CreateGraphics();

Graphic.DrawLine(myPen, sp, ep);

}

sp = ep;

}

private void Form1\_MouseUp(object sender, MouseEventArgs e)

{

k = 0;

}

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

{

myPen.Color = red.BackColor;

pictureBox1.BackColor = red.BackColor;

}

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

{

myPen.Color = green.BackColor;

pictureBox1.BackColor = green.BackColor;

}

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

{

myPen.Color = yellow.BackColor;

pictureBox1.BackColor = yellow.BackColor;

}

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

{

myPen.Color = blue.BackColor;

pictureBox1.BackColor = blue.BackColor;

}

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

{

myPen.Color = white.BackColor;

pictureBox1.BackColor = white.BackColor;

}

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

{

myPen.Color = black.BackColor;

pictureBox1.BackColor = black.BackColor;

}

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

{

myPen.Color = orange.BackColor;

pictureBox1.BackColor = orange.BackColor;

}

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

{

myPen.Color = pink.BackColor;

pictureBox1.BackColor = pink.BackColor;

}

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

{

myPen.Color = purple.BackColor;

pictureBox1.BackColor = purple.BackColor;

}

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

{

myPen.Color = maroon.BackColor;

pictureBox1.BackColor = maroon.BackColor;

}

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

{

myPen.Color = brown.BackColor;

pictureBox1.BackColor = brown.BackColor;

}

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

{

myPen.Color = cyan.BackColor;

pictureBox1.BackColor = cyan.BackColor;

}

private void pictureBox2\_Click(object sender, EventArgs e)

{

this.Close();

}

private void pictureBox2\_MouseEnter(object sender, EventArgs e)

{

pictureBox2.Image = ImageComparison.Properties.Resources.cross2;

this.Cursor = System.Windows.Forms.Cursors.Hand;

}

private void pictureBox2\_MouseLeave\_1(object sender, EventArgs e)

{

pictureBox2.Image = ImageComparison.Properties.Resources.cross;

this.Cursor = System.Windows.Forms.Cursors.Cross;

}

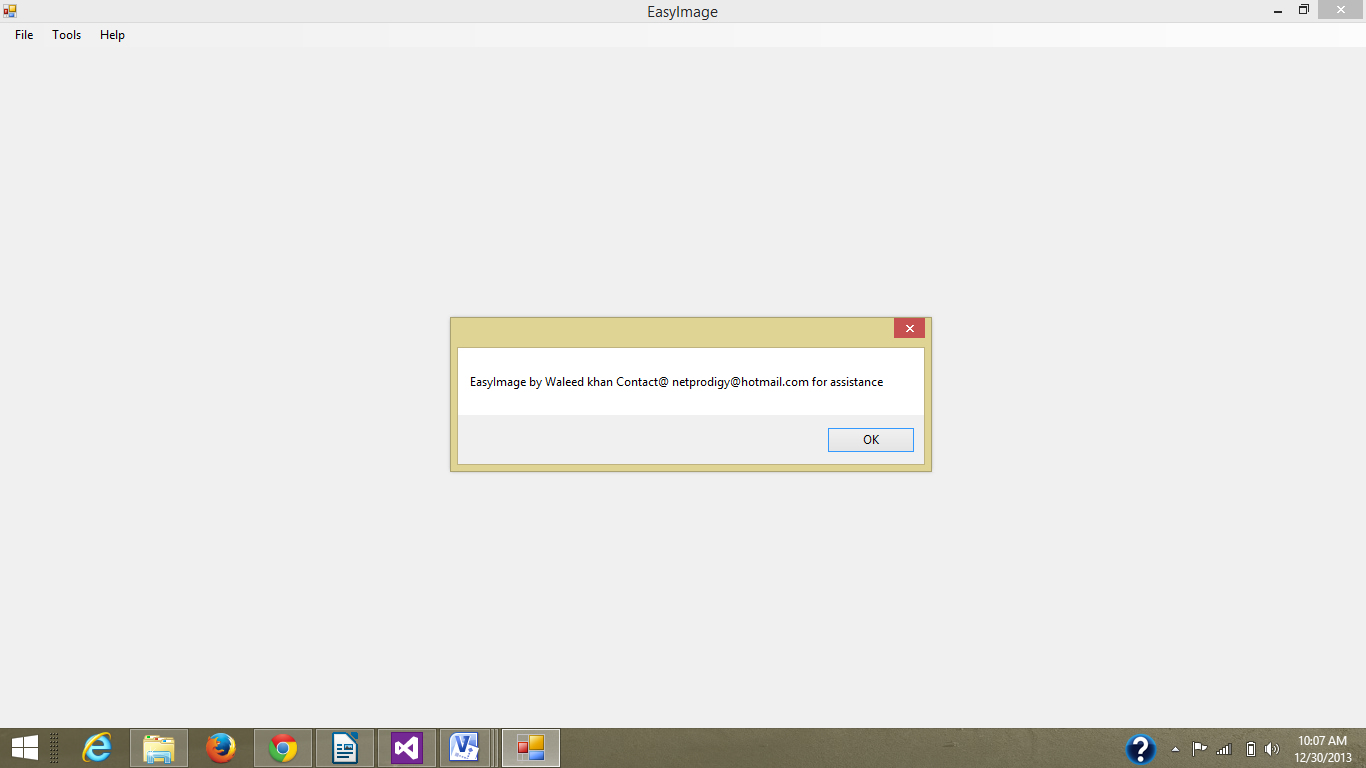
private void Form1\_Load(object sender, EventArgs e)

{

}

}

}

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

{

MessageBox.Show("EasyImage by Waleed khan Contact@ netprodigy@hotmail.com for assistance ");

}