**Name:** Abu Horara

**Enrollment:** 01-131172-050

**ASSIGNMENT # 02**

Code:

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;

using System.IO;

namespace VP\_Assignment\_2

{

public partial class Form1 : Form

{

Student s = new Student();

Nullable<int>[] id = new int?[50];

string[] name = new string[50];

Nullable<int>[] sem = new int?[50];

Nullable<double>[] cgpa = new double?[50];

string[] dept = new string[50];

string[] uni1 = new string[50];

string[] attnd = new string[50];

int count = 0;

public Form1()

{

InitializeComponent();

}

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

{

createpanel.Show();

}

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

{

}

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

{

int id = 0, sem = 0;

double cgpa = 0;

string name = "", uni = "", dept = "";

id = Convert.ToInt32(ID.Text);

name = NAME.Text;

sem = Convert.ToInt32(comboBox1.Text);

cgpa = Convert.ToDouble(CGPA.Text);

dept = DEPT.Text;

uni = UNI.Text;

try

{

using (StreamWriter file = new StreamWriter("C:/Users/Abu Horara/Desktop/assign.txt", append: true))

{

file.WriteLine(id);

file.WriteLine(name);

file.WriteLine(sem);

file.WriteLine(cgpa);

file.WriteLine(dept);

file.WriteLine(uni);

file.Close();

}

}

catch

{

MessageBox.Show("Error in File Writing");

}

MessageBox.Show("Data Added Successfully");

}

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

{

}

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

{

searchpanel.Show();

}

private void button3\_Click(object sender, EventArgs e)

{

searchBynamepanel.Show();

}

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

{

string namesearch = "";

namesearch = searchname.Text;

s.searchByname(namesearch);

try

{

using (StreamReader file1 = new StreamReader("C:/Users/Abu Horara/Desktop/assign.txt"))

{

int count = 0, flag = 0;

count = File.ReadAllLines("C:/Users/Abu Horara/Desktop/assign.txt").Length;

for (int i = 0; i <= count; i++)

{

id[i] = Convert.ToInt32(file1.ReadLine());

name[i] = file1.ReadLine();

sem[i] = Convert.ToInt32(file1.ReadLine());

cgpa[i] = Convert.ToDouble(file1.ReadLine());

dept[i] = file1.ReadLine();

uni1[i] = file1.ReadLine();

}

for (int i = 0; i <= count; i++)

{

if (name[i] == namesearch)

{

MessageBox.Show("ID: " + id[i] + "\nName: " + name[i] + "\nSemester: " + sem[i] + "\nCgpa: " + cgpa[i]+"\nDepartment: " + dept[i] + "\nUniversity: " + uni1[i]);

flag = 1;

break;

}

}

if (flag == 0)

{

MessageBox.Show("Record Not Found");

}

}

}

catch

{

MessageBox.Show("Error in File Reading");

}

}

private void button5\_Click(object sender, EventArgs e)

{

int searchByid = 0;

searchByid=Convert.ToInt32(searchID.Text);

try

{

using (StreamReader file1 = new StreamReader("C:/Users/Abu Horara/Desktop/assign.txt"))

{

int count = 0, flag = 0;

count = File.ReadAllLines("C:/Users/Abu Horara/Desktop/assign.txt").Length;

for (int i = 0; i <= count; i++)

{

id[i] = Convert.ToInt32(file1.ReadLine());

name[i] = file1.ReadLine();

sem[i] = Convert.ToInt32(file1.ReadLine());

cgpa[i] = Convert.ToDouble(file1.ReadLine());

dept[i] = file1.ReadLine();

uni1[i] = file1.ReadLine();

}

for (int i = 0; i <= count; i++)

{

if (id[i] == searchByid)

{

MessageBox.Show("ID: " + id[i]+"\nName: " + name[i]+"\nSemester: " + sem[i]+"\nCgpa: " + cgpa[i]+"\nDepartment: " + dept[i]+"\nUniversity: " + uni1[i]);

flag = 1;

break;

}

}

if (flag == 0)

{

MessageBox.Show("Record Not Found");

}

}

}

catch

{

MessageBox.Show("Error in File Reading");

}

}

private void button2\_Click(object sender, EventArgs e)

{

searchIDpanel.Show();

}

private void button4\_Click(object sender, EventArgs e)

{

listpanel.Show();

}

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

{

panel1.Show();

}

private void label9\_Click(object sender, EventArgs e)

{

}

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

{

}

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

{

toppanel.Show();

}

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

{

viewattendpanel.Show();

}

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

{

deletepanel.Show();

}

private void panel1\_Paint(object sender, PaintEventArgs e)

{

}

private void button6\_Click(object sender, EventArgs e)

{

string delname = "";

delname = deletename.Text;

try

{

using (StreamReader file1 = new StreamReader("C:/Users/Abu Horara/Desktop/assign.txt"))

{

int count = 0, flag = 0;

count = File.ReadAllLines("C:/Users/Abu Horara/Desktop/assign.txt").Length;

for (int i = 0; i < count; i++)

{

id[i] = Convert.ToInt32(file1.ReadLine());

name[i] = file1.ReadLine();

sem[i] = Convert.ToInt32(file1.ReadLine());

cgpa[i] = Convert.ToDouble(file1.ReadLine());

dept[i] = file1.ReadLine();

uni1[i] = file1.ReadLine();

}

for (int i = 0; i <= count; i++)

{

if (name[i] == delname)

{

id[i] = null;

name[i] = null;

sem[i] = null;

cgpa[i] = null;

dept[i] = null;

uni1[i] = null;

flag = 1;

break;

}

}

if (flag == 0)

{

MessageBox.Show("Record Not Found");

}

else

{

MessageBox.Show("Data Deleted Successfully");

}

file1.Close();

}

using (StreamWriter file = new StreamWriter("C:/Users/Abu Horara/Desktop/assign.txt"))

{

for (int i = 0; i <= count; i++)

{

file.WriteLine(id[i]);

file.WriteLine(name[i]);

file.WriteLine(sem[i]);

file.WriteLine(cgpa[i]);

file.WriteLine(dept[i]);

file.WriteLine(uni1[i]);

}

file.Close();

}

}

catch

{

Console.WriteLine("Error in File Reading");

}

}

private void dataGridView1\_CellContentClick(object sender, DataGridViewCellEventArgs e)

{

}

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

{

StreamReader file = new StreamReader("C:/Users/Abu Horara/Desktop/assign.txt");

string[] columnnames = file.ReadLine().Split('\n');

DataTable dt = new DataTable();

foreach (string c in columnnames)

{

dt.Columns.Add(c);

}

string newline;

while ((newline = file.ReadLine()) != null)

{

DataRow dr = dt.NewRow();

string[] values = newline.Split('\n');

for (int i = 0; i < values.Length; i++)

{

dr[i] = values[i];

}

dt.Rows.Add(dr);

}

file.Close();

dataGridView1.DataSource = dt;

}

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

{

try

{

int attendanceID = 0;

string attendancename = "";

string attend = "";

attendanceID = Convert.ToInt32(attendID.Text);

attendancename = attendname.Text;

bool isChecked = present.Checked;

if (isChecked)

{

attend = present.Text;

}

else

{

attend = absent.Text;

}

using (StreamWriter file2 = new StreamWriter("C:/Users/Abu Horara/Desktop/assign2.txt"))

{

file2.WriteLine(attendanceID);

file2.WriteLine(attendancename);

file2.WriteLine(attend);

file2.Close();

}

}

catch

{

MessageBox.Show("Error in File Reading");

}

}

private void button7\_Click\_1(object sender, EventArgs e)

{

StreamReader file = new StreamReader("C:/Users/Abu Horara/Desktop/assign2.txt");

string[] columnnames = file.ReadLine().Split('\n');

DataTable dt = new DataTable();

foreach (string c in columnnames)

{

dt.Columns.Add(c);

}

string newline;

while ((newline = file.ReadLine()) != null)

{

DataRow dr = dt.NewRow();

string[] values = newline.Split('\n');

for (int i = 0; i < values.Length; i++)

{

dr[i] = values[i];

}

dt.Rows.Add(dr);

}

file.Close();

dataGridView2.DataSource = dt;

}

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

{

try

{

StreamReader file = new StreamReader("C:/Users/Abu Horara/Desktop/assign.txt");

count = File.ReadAllLines("C:/Users/Abu Horara/Desktop/assign.txt").Length;

for (int i = 0; i < count / 6; i++)

{

id[i] = Convert.ToInt32(file.ReadLine());

name[i] = file.ReadLine();

sem[i] = Convert.ToInt32(file.ReadLine());

cgpa[i] = Convert.ToDouble(file.ReadLine());

dept[i] = file.ReadLine();

uni1[i] = file.ReadLine();

}

for (int i = 0; i < count / 6; i++)

{

for (int j = 0; j < count / 6; j++)

{

if (cgpa[i] < cgpa[j])

{

double? tem = 0;

tem = cgpa[i];

cgpa[i] = cgpa[j];

cgpa[j] = cgpa[i];

string temp="";

temp = name[i];

name[i] = name[j];

name[j] = name[i];

temp = dept[i];

dept[i] = dept[j];

dept[j] = dept[i];

temp = uni1[i];

uni1[i] = uni1[j];

uni1[j] = uni1[i];

int? temp1=0;

temp1 = sem[i];

sem[i] = sem[j];

sem[j] = sem[i];

temp1 = id[i];

id[i] = id[j];

id[j] = id[i];

}

}

}

file.Close();

}

catch

{

MessageBox.Show("Error in File Reading");

}

dataGridView3.ColumnCount = 6;

this.dataGridView3.Columns[0].Name = "ID";

this.dataGridView3.Columns[1].Name = "Name";

this.dataGridView3.Columns[2].Name = "Semester";

this.dataGridView3.Columns[3].Name = "CGPA";

this.dataGridView3.Columns[4].Name = "Department";

this.dataGridView3.Columns[5].Name = "University";

this.dataGridView3.Rows.Add(id[0], name[0], sem[0], cgpa[0], dept[0], uni1[0]);

this.dataGridView3.Rows.Add(id[2], name[1], sem[1], cgpa[1], dept[1], uni1[1]);

this.dataGridView3.Rows.Add(id[4], name[2], sem[2], cgpa[2], dept[2], uni1[2]);

}

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

{

}

private void radioButton1\_CheckedChanged(object sender, EventArgs e)

{

}

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

{

try

{

int attendanceID = 0;

string attendancename = "";

string attend = "";

attendanceID = Convert.ToInt32(textBox1.Text);

attendancename = textBox2.Text;

bool isChecked = p.Checked;

if (isChecked)

{

attend = p.Text;

}

else

{

attend = a.Text;

}

using (StreamWriter file2 = new StreamWriter("C:/Users/Abu Horara/Desktop/assign2.txt"))

{

file2.WriteLine(attendanceID);

file2.WriteLine(attendancename);

file2.WriteLine(attend);

file2.Close();

}

}

catch

{

MessageBox.Show("Error in File Reading");

}

}

}

}