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//Program By: Fereshteh Khorzani for .Net developer //

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// Click button1: transfer all words in wordlist.txt TO listbox1//

//Click Button 2: Insert all words in wordlist.txt TO Database testList and Table: listTbl//

// In Form load: Show all List in Table && Show all SORT LIST according Length of word //

// Click "btnLongestM" button Find longest word in the file that can be constructed by concatenating copies of shorter words: In this part start with first longest word in DataGrird and search in list of words in other Datagrid and find matches....

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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.Data.SqlClient;

namespace dbApp

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

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

{

int counter = 0;

string line;

System.IO.StreamReader file = new System.IO.StreamReader(@"F:\Critical Thinking\wordlist.txt");

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

{

listBox1.Items.Add(line);

counter++;

}

}

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

{

// TODO: This line of code loads data into the 'testListDataSet.listTbl' table. You can move, or remove it, as needed.

this.listTblTableAdapter.Fill(this.testListDataSet.listTbl);

SqlConnection con = new SqlConnection("Data Source=fereshteh;Initial Catalog=testList;Integrated Security=true;");

SqlDataAdapter adapt;

con.Open();

DataTable dt = new DataTable();

adapt = new SqlDataAdapter("SELECT TOP(6) list FROM dbo.listTbl ORDER BY LEN(list) DESC", con);

adapt.Fill(dt);

dataGridView2.DataSource = dt;

lstSort.DataSource = dt;

lstSort.DisplayMember = "list";

lstSort.ValueMember = "list";

con.Close();

SqlConnection con1 = new SqlConnection("Data Source=fereshteh;Initial Catalog=testList;Integrated Security=true;");

SqlDataAdapter adapt1;

con1.Open();

DataTable dt1 = new DataTable();

adapt1 = new SqlDataAdapter("SELECT list FROM dbo.listTbl", con);

adapt1.Fill(dt1);

dataGridView3.DataSource = dt1;

con.Close();

}

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

{

SqlConnection con = new SqlConnection("Data Source=fereshteh;Initial Catalog=testList;Integrated Security=true;");

SqlCommand cmd;

int counter = 0;

string line;

System.IO.StreamReader file = new System.IO.StreamReader(@"F:\Critical Thinking\wordlist.txt");

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

{

cmd = new SqlCommand("insert into listTbl(list) values(@list)", con);

con.Open();

cmd.Parameters.AddWithValue("@list", line);

cmd.ExecuteNonQuery();

con.Close();

counter++;

}

}

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

{

int j, k = 0, m;

string Str1 = dataGridView2.Rows[1].Cells["list"].Value.ToString();

txtMax.Text = Str1;

String Str2="", Prefix="", Suffix="";

m = Prefix.Length;

for (j = 1; j < Str1.Length; j++)

{

Str2 = Str1.Substring(k, j-m);

int counter;

for (counter = 0; counter < (dataGridView1.Rows.Count-1); counter++)

{

if (Str2 == (dataGridView3.Rows[counter].Cells["list"].Value.ToString()))

{

Prefix = Str2;

Str2 = "";

Suffix = Str1.Substring(j, Str1.Length -j );

Str1 = Suffix;

m = Prefix.Length - 1;

if (Prefix != "")

txtPrint.Text = txtPrint.Text + Prefix + "--> exist in list && " + " rest of word --> " + Suffix + "\*\\\*";

}

}

}

}

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

{

}

}

}