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Caesar Cipher

using MaterialSkin;

using MaterialSkin.Controls;

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 Caesar

{

public partial class Main : MaterialForm

{

string alphabets = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

public Main()

{

InitializeComponent();

}

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

{

}

#region Encrypt

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

{

string Text = RctxtText.Text.ToUpper();

int key = Convert.ToInt32(CmbKey.Text);

string final = "";

int indexOfChar = 0;

char encryptedChar;

foreach (char c in Text)

{

indexOfChar = alphabets.IndexOf(c);

if (c == ' ')

{

final = final + c;

}

else if (c == '\n')

{

final = final + c;

}

else if ((indexOfChar + key) > 25)

{

encryptedChar = alphabets[(indexOfChar + key) - 27];

final = final + encryptedChar;

}

else

{

encryptedChar = alphabets[indexOfChar + key];

final = final + encryptedChar;

}

}

//Menampilkan teks yg di encrypt

RctxtText.Clear();

RctxtText.Text = final;

}

#endregion

#region Decrypt

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

{

string Text = RctxtText.Text.ToUpper();

int key = Convert.ToInt32(CmbKey.Text);

string final = "";

int indexOfChar = 0;

char decryptedChar;

foreach (char c in Text)

{

indexOfChar = alphabets.IndexOf(c);

if (c == ' ')

{

final = final + c;

}

else if (c == '\n')

{

final = final + c;

}

else if ((indexOfChar - key) < 0)

{

decryptedChar = alphabets[(indexOfChar - key) + 27];

final = final + decryptedChar;

}

else

{

decryptedChar = alphabets[indexOfChar - key];

final = final + decryptedChar;

}

}

//Menampilkan teks yg di decrypt

RctxtText.Clear();

RctxtText.Text = final;

}

#endregion

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

{

RctxtText.Clear();

}

}

}

