[\\\\form\_snake](\\\\\\\\form_snake)

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

using System.Drawing;

using System.IO;

namespace snake

{

public partial class Form1 : Form

{

private int x;

private int y;

private int ch;

private int x\_food;

private int y\_food;

private Direction dir;

private bool finish;

private int max\_ch;

private int red;

private int green;

private int blue;

private int red\_bk;

private int green\_bk;

private int blue\_bk;

private static System.Media.SoundPlayer player\_Cat\_Meow;

private static System.Media.SoundPlayer player\_AM;

private const string REZ\_FILE = "rez.txt";

public enum Direction

{

DIR\_UNDEF = 0, //0

DIR\_UP = 1, //1-вверх

DIR\_RIGHT = 2,//2-вправо

DIR\_DOWN = 3, //3-вниз

DIR\_LEFT = 4 //4-влево

};

private void Init\_Game()

{

x = 300;

y = 300;

ch = 0;

x\_food = 200;

y\_food = 200;

dir = Direction.DIR\_UNDEF;

timer1.Enabled = true;

finish = false;

string[] containFile = File.ReadAllLines(REZ\_FILE);

textBox1.Text = containFile[0].Trim() + " " + containFile[1].Trim();

int.TryParse(containFile[0].Trim(), out max\_ch);

}

public Form1()

{

InitializeComponent();

Init\_Game();

button4.Enabled = false;

player\_Cat\_Meow = new System.Media.SoundPlayer("Cat Meow.wav");

player\_AM = new System.Media.SoundPlayer("Sound2.wav");

red = 255;

green = 0;

blue = 0;

red\_bk = 128;

green\_bk = 255;

blue\_bk = 128;

MessageBox.Show("Введите ник");

}

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

{

Init\_Game();

timer1.Interval = 2000;

textBox2.Text = ch.ToString();

timer1.Enabled = true;

Brush p2 = new SolidBrush(Color.FromArgb(red\_bk, green\_bk, blue\_bk));

Graphics g = panel1.CreateGraphics();

g.FillRectangle(p2, 0, 0, panel1.Width, panel1.Height);

}

private void Form1\_Paint(object sender, PaintEventArgs e)

{

new\_Paint();

}

private void new\_Paint()

{

Brush p = new SolidBrush(Color.FromArgb(red, green, blue));

Graphics g = panel1.CreateGraphics();

g.FillEllipse(p, x, y, 10, 10);

new\_Paint\_food();

}

private void old\_Paint()

{

Brush p2 = new SolidBrush(Color.FromArgb(red\_bk, green\_bk, blue\_bk));

Graphics g = panel1.CreateGraphics();

g.FillEllipse(p2, x, y, 10, 10);

}

private void new\_Paint\_food()

{

Brush p1 = Brushes.Blue;

Graphics g = panel1.CreateGraphics();

g.FillEllipse(p1, x\_food, y\_food, 5, 5);

}

private void old\_Paint\_food()

{

Brush p2 = new SolidBrush(Color.FromArgb(red\_bk,green\_bk,blue\_bk));

Graphics g = panel1.CreateGraphics();

g.FillEllipse(p2, x\_food, y\_food, 5, 5);

}

protected override bool ProcessCmdKey(ref Message msg, Keys keyData)

{

if (!finish){

if (keyData == Keys.Down)

{

old\_Paint();

y = y + 10;

new\_Paint();

dir = Direction.DIR\_DOWN;

}

if (keyData == Keys.Up)

{

old\_Paint();

y = y - 10;

new\_Paint();

dir = Direction.DIR\_UP;

}

if (keyData == Keys.Left)

{

old\_Paint();

x = x - 10;

new\_Paint();

dir = Direction.DIR\_LEFT;

}

if (keyData == Keys.Right)

{

old\_Paint();

x = x + 10;

new\_Paint();

dir = Direction.DIR\_RIGHT;

}

if ((Math.Abs(x - x\_food) < 10) && (Math.Abs(y - y\_food) < 10))

{

ch = ch+1;

player\_AM.Play();

textBox2.Text=ch.ToString();

old\_Paint\_food();

Random rnd = new Random();

x\_food = rnd.Next(15, panel1.Width - 15);

y\_food = rnd.Next(15, panel1.Height - 15);

timer1.Enabled = false;

if (timer1.Interval>=200)

{

timer1.Interval = timer1.Interval - 100;

}

timer1.Enabled = true;

}

if (dir != Direction.DIR\_UNDEF)

{

die\_apple();

}

}

return base.ProcessCmdKey(ref msg, keyData);

}

private void timer1\_Tick(object sender, EventArgs e)

{

if (dir == Direction.DIR\_DOWN)

{

old\_Paint();

y = y + 10;

new\_Paint();

}

if (dir == Direction.DIR\_UP)

{

old\_Paint();

y = y - 10;

new\_Paint();

}

if (dir == Direction.DIR\_LEFT)

{

old\_Paint();

x = x - 10;

new\_Paint();

}

if (dir == Direction.DIR\_RIGHT)

{

old\_Paint();

x = x + 10;

new\_Paint();

}

if ((Math.Abs(x - x\_food) < 10) && (Math.Abs(y - y\_food) < 10))

{ //-----съел

ch = ch + 1;

player\_AM.Play();

textBox2.Text = ch.ToString();

old\_Paint\_food();

Random rnd = new Random();

x\_food = rnd.Next(1, panel1.Width - 1);

y\_food = rnd.Next(1, panel1.Height - 1);

if (timer1.Interval >= 200)

{

timer1.Interval = timer1.Interval - 100;

}

}

if (dir != Direction.DIR\_UNDEF)

{

die\_apple();

}

}

void die\_apple() {

if ((x < 10) || (y < 10) || (x > panel1.Height - 10) || (y > panel1.Width - 10))

{

finish = true;

//System.Media.SoundPlayer player = new System.Media.SoundPlayer("Cat Meow.wav");

player\_Cat\_Meow.Play();

timer1.Enabled = false;

dir = Direction.DIR\_UNDEF;

MessageBox.Show("Игра завершена");

if (ch > max\_ch)

{

MessageBox.Show("Вы установили рекорд!");

StreamWriter sw;

File.Delete(REZ\_FILE);

sw = File.AppendText(REZ\_FILE);

sw.WriteLine(ch.ToString());

sw.WriteLine(textBox3.Text);

sw.Flush();

sw.Close();

textBox1.Text = ch.ToString() + " " + textBox3.Text;

}

}

}

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

{ //изменить цвет шарика

color page = new color(red,green,blue);

DialogResult res = page.ShowDialog();

if (res == DialogResult.Yes)

{

red = page.red;

green = page.green;

blue = page.blue;

}

}

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

{//изменения цвета поля

color page = new color(red\_bk, green\_bk, blue\_bk);

DialogResult res = page.ShowDialog();

if (res == DialogResult.Yes)

{

red\_bk = page.red;

green\_bk = page.green;

blue\_bk = page.blue;

}

}

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

{//пауза

timer1.Enabled = false;

button4.Enabled = true;

dir = Direction.DIR\_UNDEF;

}

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

{//игра

timer1.Enabled = true;

button4.Enabled = false;

}

}

}

[\\\\\\color](file:///\\\\\\color)

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Windows.Forms;

namespace snake

{

public partial class color : Form

{

public int red;

public int green;

public int blue;

public color(int red, int green, int blue)

{

InitializeComponent();

textBox1.Text = red.ToString();

textBox2.Text = green.ToString();

textBox3.Text = blue.ToString();

this.red = red;

this.green = green;

this.blue = blue;

}

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

{

this.Close();

}

private bool check\_color(out int r, out int g, out int b)

{

r = 0;

g = 0;

b = 0;

if ((int.TryParse(textBox1.Text, out r)) && (int.TryParse(textBox2.Text, out g)) && (int.TryParse(textBox3.Text, out b))

&& (r <= 255) && (g <= 255) && (b <= 255) && (r >= 0) && (g >= 0) && (b >= 0))

{

return true;

}

else return false;

}

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

{

int r;

int g;

int b;

if (check\_color(out r, out g, out b))

{

red = r;

green = g;

blue = b;

}

else MessageBox.Show("Исправьте значение цвета");

}

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

{

int r;

int g;

int b;

if (check\_color(out r, out g, out b))

{

Brush p2 = new SolidBrush(Color.FromArgb(r, g, b));

Graphics gr = panel1.CreateGraphics();

gr.FillRectangle(p2, 0, 0, panel1.Width, panel1.Height);

}

else MessageBox.Show("Исправьте значение цвета");

}

}

}