Схема кода первой формы игры “Compuct".

Public Class Form1

Private score As Integer = 0

Private Const Caption As String = "Ошибка"

ReadOnly stringManager As Resources.ResourceManager

Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

Try

Button2.Enabled = False

StopGameToolStripMenuItem.Enabled = False

For x As Integer = 1 To 20

game.Columns.Add(New DataGridViewTextBoxColumn())

game.Columns(x - 1).Width = 15

If x < 7 Then

ShapePreview1.Columns.Add(New DataGridViewTextBoxColumn())

ShapePreview1.Columns(x - 1).Width = 15

End If

Next

ShapePreview1.Rows.Add(6)

game.Rows.Add(30)

For x As Integer = 1 To 30

game.Rows(x - 1).Height = 15

If x < 7 Then

ShapePreview1.Rows(x - 1).Height = 15

End If

Next

RichTextBox1.Text = CStr(My.Computer.Clock.LocalTime)

RichTextBox4.Text() = "000100"

RichTextBox1.Enabled = False

RichTextBox2.Enabled = False

RichTextBox3.Enabled = False

RichTextBox5.Enabled = False

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

'removes focus from DGVs

Private Sub Form1\_Shown(sender As Object, e As EventArgs) Handles Me.Shown

Try

ShapePreview1.CurrentCell = Nothing

ShapePreview1.ShowCellToolTips = False

game.CurrentCell = Nothing

game.ShowCellToolTips = False

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Form1\_Paint(sender As Object, e As PaintEventArgs) Handles Me.Paint

Try

Dim points() As Point = {game.Location, New Point(game.Left, game.Bottom), New Point(game.Right, game.Bottom), New Point(game.Right, game.Top)}

Dim silverPen As New Pen(Color.Silver, 2)

e.Graphics.DrawLines(silverPen, points)

e.Graphics.DrawLine(silverPen, game.Right + 2, game.Bottom - 212, game.Right + 2, game.Bottom + 1) 'left

e.Graphics.DrawLine(silverPen, game.Right + 1, game.Bottom - 213, game.Right + 126, game.Bottom - 213) 'top

e.Graphics.DrawLine(silverPen, game.Right + 2, game.Bottom, game.Right + 125, game.Bottom) 'bottom

e.Graphics.DrawLine(silverPen, game.Right + 125, game.Bottom - 212, game.Right + 125, game.Bottom + 1) 'right

Dim xPosition As Integer = game.Right + 4

Dim yPosition As Integer = game.Bottom - 16

Dim cellLines() As Integer = {1, 2, 9, 10, 13, 14}

For y As Integer = 1 To 14

If cellLines.Contains(y) Then

For x As Integer = 0 To 7

e.Graphics.FillRectangle(Brushes.Silver, New Rectangle(xPosition + (x \* 15), yPosition, 14, 14))

Next

Else

e.Graphics.FillRectangle(Brushes.Silver, New Rectangle(xPosition, yPosition, 14, 14))

e.Graphics.FillRectangle(Brushes.Silver, New Rectangle(xPosition + (7 \* 15), yPosition, 14, 14))

End If

yPosition -= 15

Next

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Button1\_Click(sender As Object, e As EventArgs) Handles Button1.Click, NewGameToolStripMenuItem.Click

Try

Dim b As String = "000025"

If [String].IsNullOrEmpty(RichTextBox4.Text) = True Or RichTextBox4.Text = "0" Or RichTextBox4.Text.Trim.Length < 6 Or (CInt(RichTextBox4.Text) < CInt(b)) Then

MsgBox("Введите числовое значение знаковых баллов, состоящее из не более шести знаков,и не менее 25, и не более: 999900, в указанном формате. СМ. ""Information"". ")

game.StopGame()

Exit Sub

Else

Dim a As Integer = 999900

If (RichTextBox4.Text.Trim.Length > 6) Then Exit Sub

If (RichTextBox4.Text.Trim.Length < 6) Then Exit Sub

If (CInt(RichTextBox4.Text) > a) Then Exit Sub

If (CInt(RichTextBox4.Text) < CInt(b)) Then Exit Sub

InformationToolStripMenuItem.Enabled = False

AboutCompuctToolStripMenuItem.Enabled = False

RichTextBox4.Enabled = False

Button2.Enabled = True

StopGameToolStripMenuItem.Enabled = True

Button2.BackColor = Color.White

RichTextBox3.Text() = ""

RichTextBox5.Text() = ""

score = 0

lblScore.Text = score.ToString("000000")

game.NewGame()

Timer1.Enabled = True

RichTextBox1.Text = CStr(My.Computer.Clock.LocalTime)

End If

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Game\_IncrementScore(newPoints As Integer) Handles game.IncrementScore

Try

score += newPoints

lblScore.Text = score.ToString("000000")

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Game\_ShapeChanged(shapePoints() As Point, shapeColor As String) Handles game.ShapeChanged

Try

Dim pts() As Point = DirectCast(shapePoints.Clone, Point())

For y As Integer = 0 To 5

For x As Integer = 0 To 5

ShapePreview1.Rows(y).Cells(x).Style.BackColor = Color.Black

Next

Next

Dim minX As Integer = pts.Min(Function(p) p.X)

Dim minY As Integer = pts.Min(Function(p) p.Y)

For x As Integer = 0 To pts.GetUpperBound(0)

pts(x).Offset(-minX, -minY)

Next

Dim w As Integer = pts.Max(Function(p) p.X) - pts.Min(Function(p) p.X)

Dim h As Integer = pts.Max(Function(p) p.Y) - pts.Min(Function(p) p.Y)

Dim offSetX As Integer = CInt(Math.Floor((6 - w) / 2))

Dim offSetY As Integer = CInt(Math.Floor((6 - h) / 2))

Dim colors As New Dictionary(Of String, Color) From {{"R", Color.Red}, {"G", Color.Green}, {"B", Color.Blue}, {"Y", Color.Yellow}}

For x As Integer = 0 To pts.GetUpperBound(0)

pts(x).Offset(offSetX, offSetY)

ShapePreview1.Rows(pts(x).Y).Cells(pts(x).X).Style.BackColor = colors(shapeColor)

Next

game.Focus()

game.CurrentCell = Nothing

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub ExitToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles ExitToolStripMenuItem.Click

Try

Close()

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub StopGameToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles StopGameToolStripMenuItem.Click, Button2.Click

Try

InformationToolStripMenuItem.Enabled = True

AboutCompuctToolStripMenuItem.Enabled = True

Button2.BackColor = Color.Red

game.StopGame()

Timer1.Enabled = False

Duration()

Dim a As Double = CDbl(RichTextBox3.Text) / 60

RichTextBox5.Text() = CStr(a)

RichTextBox4.Enabled = True

MsgBox("Прежде чем начать новую игру, введите числовое значение выигрышных баллов,в указанном, в ""Information"" формате, если этому предшествовало удаление или изменение этого значения.")

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Timer1\_Tick(sender As Object, e As EventArgs) Handles Timer1.Tick

Try

RichTextBox2.Text = CStr(My.Computer.Clock.LocalTime)

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub LblScore\_TextChanged(sender As Object, e As EventArgs) Handles lblScore.TextChanged

Try

If Not (RichTextBox4.Text = String.Empty) Then

If lblScore.Text() >= RichTextBox4.Text() Then

game.StopGame()

Timer1.Enabled = False

Duration()

Dim a As Double = CDbl(RichTextBox3.Text) / 60

RichTextBox5.Text() = CStr(a)

End If

End If

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Duration()

Try

Dim oldTime As Date = CDate(RichTextBox1.Text)

Dim newTime As Date = CDate(RichTextBox2.Text)

Dim difference As TimeSpan = newTime - oldTime

Dim differenceInSeconds As Double = difference.TotalSeconds

RichTextBox3.Text = CType(differenceInSeconds, String)

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub InformationToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles InformationToolStripMenuItem.Click

Try

Dim Intn As New Information

Intn.Show()

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub AboutCompuctToolStripMenuItem\_Click(sender As Object, e As EventArgs) Handles AboutCompuctToolStripMenuItem.Click

Try

Dim Ab As New AboutCompuct

Ab.Show()

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub Button3\_Click(sender As Object, e As EventArgs) Handles Button3.Click

Try

game.StopGame()

Timer1.Enabled = False

Close()

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub RichTextBox4\_KeyPress(sender As Object, e As KeyPressEventArgs) Handles RichTextBox4.KeyPress

Try

'ограничение на вхождение не цифровых знаков

If Char.IsDigit(e.KeyChar) = True Then Exit Sub

If e.KeyChar = Convert.ToChar(Keys.Back) Then RichTextBox4.Text = "0"

' Ограничение на вхождения иных символьных знаков:

e.Handled = True

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub RichTextBox1\_KeyPress(sender As Object, e As KeyPressEventArgs) Handles RichTextBox1.KeyPress, RichTextBox2.KeyPress, RichTextBox3.KeyPress, RichTextBox5.KeyPress

Try

' Вхождение десятичных знаков и Backspace:

If Char.IsDigit(e.KeyChar) = True Then Exit Sub ' или Return

If e.KeyChar = Convert.ToChar(Keys.Back) Then Return ' или Exit Sub

' Ограничение на ввод иных символических знаков:

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

Private Sub RichTextBox4\_TextChanged(sender As Object, e As EventArgs) Handles RichTextBox4.TextChanged

Try

If (RichTextBox4.Text.Trim.Length > 6) Then RichTextBox4.Text = "0"

Catch ex As Exception

MessageBox.Show(ex.Message, stringManager.GetString(Caption, Globalization.CultureInfo.CurrentUICulture), MessageBoxButtons.OK, MessageBoxIcon.Exclamation)

End Try

End Sub

End Class