Akrom S

HW3

Exercises:

1) IIS - Internet Information Services, the web hosting software that’s part of the Windows operating system.

2) CLR – The Common Language Runtime. It manages the execution of programs written in any language that uses the .NET Framework.

3) CIL – Common Intermediate Language. It’s a low-level assembly-type programming language using the .NET-languages.

4) if the code is proprietary, the calculations require a lot of programming code, if inputs/results need to be shared by other users

5) If there are no need to go back and forth with user input. After web page download, the client-side computer does all the work. Therefore, client-side processing tends to be faster.

6) runat=”server”

7) Pascal case is when the first letter of the word is capitalized. (for example: MyNameIsAkrom)

8) Value types like Java primitive types, in that a variable declared with a value type will hold 1 simple data item, and its value stored on the stack. Reference type are the same as Java reference types. They are defined using a class and variable declared with a reference type doesn’t store its value directly, instead, it stores the address that holds the real data, its value stored on the heap.

9) use Object.ToString() method.

string name = person.ToString();

10) it disables page event auto wiring, so page event handler methods are not called automatically.

11) it allows a class to be split across multiple files.

12) When I don’t need to save web server control. If the submit goes to a different page (not the source page) then disable it.

13) View State won’t save the first web server control. So it won’t be able to do the math correct way. In Fibonacci, View State should remember web server control for every state, then add the new value to the previous value. But if its disabled, then it won’t be able to remember previous state.

Project:

<%--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* goldenRectangle.aspx

\* Akrom S

\*

\* This page generates a golden ratio

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*--%>

<%@ Page Language="C#" CodeFile="goldenRectangle.aspx.cs" Inherits="HW3" %>

<!DOCTYPE html>

<html>

<head>

<title>Golden Rectangle Generator</title>

</head>

<body>

<h2>Golden Rectangle Generator</h2>

<form runat="server">

<p>

Dimensions for a rectangle that approximates a golden rectangle:

<asp:Label id="rectSize" Text="" runat="server"/><br>

The rectangle's dimensions form a ratio that is

<asp:Label id="greaterOrLess" Text="" runat="server"/>

than the golden ratio by

<asp:Label id="ratio" Text="" runat="server"/>

</p>

<p>

<asp:Button Text="New golden rectangle"

OnClick="GenerateGoldenRect" runat="server"/>

</p>

</form>

</body>

</html>

Project 1 CS file

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* goldenRectangle.aspx.cs

\* Akrom S

\*

\* This code-behind file generates a golden ratio

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using System;

using System.Web.UI;

public partial class HW3: Page

{

public void Page\_Load(object s, EventArgs e)

{

GenerateGoldenRect(s, e);

}

public void GenerateGoldenRect(object s, EventArgs e)

{

Random random = new Random();

double goldenRatio = 1.6180;

int height = random.Next(50, 201);

int width = (int)Math.Round(height \* goldenRatio);

rectSize.Text = width.ToString() + " x " + height.ToString();

double differenceWH =

Math.Round(((double)width / (double)height) - goldenRatio, 4);

if (differenceWH > 0)

{

greaterOrLess.Text = "greater";

}

else

{

greaterOrLess.Text = "less";

differenceWH = differenceWH \* (-1);

}

ratio.Text = String.Format("{0:#.0000}", differenceWH);

} // end GoldenRect

} // end

Project 2

<%--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* stringCount.aspx

\* Akrom S

\*

\* This page counts string input and outputs the times its been typed

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*--%>

<%@ Page Language="C#" %>

<!DOCTYPE html>

<html>

<head>

<title>String Count</title>

<script runat="server">

public void Count(object s, EventArgs e)

{

int found = 0;

if (search.Text == "")

{

output.Text = "You must enter a value in the Search string field.";

}

else

{

textBox.Text.IndexOf(search.Text);

found++;

output.Text =

"The string \"" + search.Text + "\" occurs " + found + " times.";

}

}

</script>

</head>

<body>

<form runat="server">

<asp:TextBox id="textBox"

PlaceHolder="Insert a text here that you want to search through."

TextMode="MultiLine" Columns="60" Rows="5" runat="server" />

<br><br>

<p>

Search string:

<asp:TextBox id="search" runat="server" />

<asp:Button Text="Count" OnClick="Count" runat="server" />

<br><br>

<asp:Label id="output" runat="server" />

</p>

</form>

</body>

</html></html>







