C# Additional Topics

1)

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading;

using System.Threading.Tasks;

namespace AsyncHandsOn

{

class Program

{

public static async Task firstMethod()

{

await Task.Run(() =>

{

string a = secondMethod();

Console.WriteLine(a);

});

}

public static string secondMethod()

{

Console.WriteLine("wait for string to return");

Thread.Sleep(4444);

return "this is the second method ";

}

static void Main(string[] args)

{

firstMethod();

Console.ReadKey();

}

}

}

2)

using System;

using System.Collections.Generic;

using System.Linq;

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using System.Threading;

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namespace AsyncHandsOn

{

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}

static void Main(string[] args)

{

firstMethod();

Console.ReadKey();

}

}

}

Form1.Designer.cs

namespace WindowsFormsApp

{

partial class Form1

{

/// <summary>

/// Required designer variable.

/// </summary>

private System.ComponentModel.IContainer components = null;

/// <summary>

/// Clean up any resources being used.

/// </summary>

/// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>

protected override void Dispose(bool disposing)

{

if (disposing && (components != null))

{

components.Dispose();

}

base.Dispose(disposing);

}

#region Windows Form Designer generated code

/// <summary>

/// Required method for Designer support - do not modify

/// the contents of this method with the code editor.

/// </summary>

private void InitializeComponent()

{

this.label1 = new System.Windows.Forms.Label();

this.button1 = new System.Windows.Forms.Button();

this.SuspendLayout();

//

// label1

//

this.label1.AutoSize = true;

this.label1.Location = new System.Drawing.Point(300, 150);

this.label1.Name = "label1";

this.label1.Size = new System.Drawing.Size(0, 20);

this.label1.TabIndex = 1;

//

// button1

//

this.button1.Location = new System.Drawing.Point(643, 381);

this.button1.Name = "button1";

this.button1.Size = new System.Drawing.Size(94, 29);

this.button1.TabIndex = 2;

this.button1.Text = "button1";

this.button1.UseVisualStyleBackColor = true;

this.button1.Click += new System.EventHandler(this.button1\_Click\_1);

//

// Form1

//

this.AutoScaleDimensions = new System.Drawing.SizeF(8F, 20F);

this.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;

this.ClientSize = new System.Drawing.Size(800, 450);

this.Controls.Add(this.button1);

this.Controls.Add(this.label1);

this.Name = "Form1";

this.SizeGripStyle = System.Windows.Forms.SizeGripStyle.Show;

this.Text = "Form1";

this.Load += new System.EventHandler(this.Form1\_Load);

this.ResumeLayout(false);

this.PerformLayout();

}

#endregion

private System.Windows.Forms.Label label1;

private System.Windows.Forms.Button button1;

}

}

Program.cs

using System;

using System.Collections.Generic;

using System.Linq;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace WindowsFormsApp

{

static class Program

{

[STAThread]

static void Main()

{

Application.EnableVisualStyles();

Application.SetCompatibleTextRenderingDefault(false);

Application.Run(new Form1());

}

}

}

3) using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Handson4.\_5

{

class NamedParameter

{

static void GetCohortDetails(string Cohortname, int Genccount, string Mode, string Track, string CurrentModule)

{

Console.WriteLine("It is {0} with {1} GenCs undergoing training for {2} thru {3}. The current module of training is {4}", Cohortname, Genccount, Track, Mode, CurrentModule);

}

// Optional Prameters

static void OrderDetails(string Productname, string Sellername, int Orderquantity = 1, bool returnable = true)

{

Console.WriteLine("Here is the order detail – {0} number of {1} by {2} is ordered. It’s returnable status is {3}", Orderquantity, Productname, Sellername, returnable);

}

static void Main(string[] args)

{

Console.WriteLine("Cohort Details");

// Named parameters

GetCohortDetails(Cohortname: "CDE", Genccount: 18, Track: "Java", Mode: "OBL", CurrentModule: "Stage 3");

GetCohortDetails(Cohortname: "CDE", Genccount: 18, Mode: "PARC", Track: ".Net", CurrentModule: "Stage 3");

Console.WriteLine("-------------------------------------");

// Optional parameters

Console.WriteLine("Order Details");

OrderDetails(Sellername: "abc", Productname: "def", Orderquantity: 10, returnable: false);

OrderDetails(Sellername: "abc", Productname: "def");

Console.WriteLine("-------------------------------------");

Console.ReadLine();

}

}

}