**Async Programming Handson**

**Code Screenshots :**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading;

using System.Threading.Tasks;

namespace AsyncAwait11

{

public static class Program

{

public static async Task<string> StringReturn()

{

return "Hi, Welcome to Visual Studio";

}

public static async void Display()

{

Console.WriteLine("Please Wait!");

Thread.Sleep(2000);

var msgReceived = await StringReturn();

Console.WriteLine(msgReceived);

}

static void Main(string[] args)

{

Display();

Console.ReadKey();

}

}

}

**Output Screenshots :**

**Output:**



**Code Screenshots :**

using System;

using System.Threading.Tasks;

using System.Windows.Forms;

using System.IO;

using System.Threading;

namespace filecount

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

public int CountChars()

{

int count = 0;

using (StreamReader streamReader = new StreamReader("C:\\Users\\vinee\\Desktop\\vivek.txt"))

{

string content = streamReader.ReadToEnd();

count = content.Length;

Thread.Sleep(2000);

}

return count;

}

private void label1\_Click(object sender, EventArgs e)

{

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private async void button1\_Click\_1(object sender, EventArgs e)

{

Task<int> task = new Task<int>(CountChars);

task.Start();

label1.Text = "File is processing";

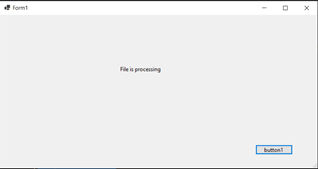
int count = await task;

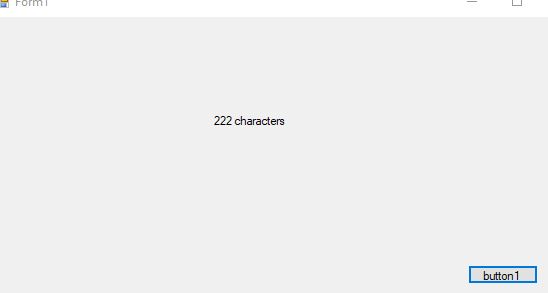
label1.Text = count.ToString() + " characters";

}

}

}

**Output Screenshots :**



**Code Screenshots :**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace GetCohortDetails

{

enum Mode

{

OBL,

PARC

}

enum Track

{

JAVA,

DOTNET

}

class Program

{

public static void GetCohortDetails(string cohortName, int gencCount, Mode mode, Track track, string currentModule)

{

Console.WriteLine("It is " + cohortName + " with " + gencCount + " GenCs undergoing training for " + track + " thru " + mode + ". The current module of training is " + currentModule);

}

static void Main(string[] args)

{

GetCohortDetails("CDE", 10, Mode.OBL, Track.JAVA, "java");

GetCohortDetails(cohortName: "CDE", gencCount: 16, mode: Mode.OBL, track: Track.JAVA, currentModule: "java");

GetCohortDetails("CDE", 20, Mode.PARC, Track.DOTNET, "dotnet");

GetCohortDetails(cohortName: "CDE", gencCount: 25, mode: Mode.PARC, track: Track.DOTNET, currentModule: "dotnet" +

"");

Console.ReadKey();

}

}

}

**Output Screenshots :**

