

```
1 using System;
2 using System.Net;
3 using System.Threading.Tasks;
4 using System.Windows.Forms;
5 namespace WindowsFormsApp3
6 {
7     public partial class Form2 : Form
8     {
9         public Form2()
10        {
11            InitializeComponent();
12        }
13        private async void button1_Click(object sender, EventArgs e)
14        {
15            // Scenario [A]
16            WebsiteDataModel results = await Task.Run(() =>           ↗
17                DownloadWebsiteAsync_WithReturnValue());
18            MessageBox.Show("Done");
19
20            // Scenario [B]
21            // When you have multiple tasks to be execute -- Add to a List -- ↗
22            Then -- await Task.WhenAll
23            /*List<Task<WebsiteDataModel>> tasks = new                    ↗
24                List<Task<WebsiteDataModel>>();
25            foreach (string site in websites)
26            {
27                tasks.Add(DownloadWebsiteAsync(site));
28            }
29            var results = await Task.WhenAll(tasks);
30            */
31        }
32
33        private async Task<WebsiteDataModel>                        ↗
34            DownloadWebsiteAsync_WithReturnValue()
35        {
36            WebsiteDataModel output = new WebsiteDataModel();
37            WebClient client = new WebClient();
38            output.WebsiteUrl = "https://www.yahoo.com";
39            output.WebsiteData = await client.DownloadStringTaskAsync ↗
40                ("https://www.yahoo.com");
41            return output;
42        }
43    }
44
45    public class WebsiteDataModel
46    {
47        public string WebsiteUrl { get; set; } = "";
48        public string WebsiteData { get; set; } = "";
49    }
50 }
```