

```
1
2 using System;
3 using System.Threading;
4 using System.Windows.Forms;
5
6 namespace My_Threading
7 {
8     public partial class Form1 : Form
9     {
10         Thread Th1 = null;
11         Thread Th2 = null;
12         Thread Th3 = null;
13
14         public Thread1 thread1 = new Thread1();
15         public Thread2 thread2 = new Thread2();
16         public Thread3 thread3 = new Thread3();
17
18         private int msg = 1;
19         public Form1()
20         {
21             InitializeComponent();
22             // Instanziere die Thread Classes
23
24             // Starte die Threads mit der Funktion 'RaiseTheEvent'
25             Th2 = new Thread(thread2.RaiseTheEvent2);
26             Th2.Start();
27             Th1 = new Thread(thread1.RaiseTheEvent1);
28             Th1.Start();
29             Th3 = new Thread(thread3.RaiseTheEvent3);
30             Th3.Start();
31
32             // Set function to delegate
33             Thread2.TestEvent += thread1.Subscriber1;
34             Thread2.TextEvent += UpdateTextBox; ;
35             Thread1.TestEvent += thread2.Subscriber2;
36             Thread1.TextEvent += UpdateTextBox;
37             Thread3.TextEvent += UpdateTextBox;
38             Thread2.Msg_Subscriber_Thread3 +=
39                 thread3.More_Subscriber_Thread3;
40             Console.WriteLine("in the Main thread");
41         }
42         private void btn_to_th2(object sender, EventArgs e)
43         {
44             // Starte Event senden mit Setter "Start" der Class
45             thread2.Start = msg++;
46         }
47
48         private void btn_to_th1(object sender, EventArgs e)
49         {
50             // Starte Event senden mit Setter "Start" der Class
51             thread1.Start = msg++;
52         }
53     }
54 }
```

```
53     private void Form1_Load(object sender, EventArgs e)
54     {
55
56     }
57
58     private void Form1_FormClosing(object sender,
59                                     FormClosingEventArgs e)
60     {
61         // Determine if text has changed in the textbox by
62         // comparing to original text.
63         string module = "Form1_Closing: ";
64         Console.WriteLine("{0}", module);
65         Th1.Abort();
66         Th2.Abort();
67     }
68
69     public void Subscriber3(string text)
70     {
71         string module = "Forms->Subscriber3: ";
72         Console.WriteLine("{0}Event message from {1}", module,
73                             text);
74     }
75
76     public void UpdateTextBox(string text)
77     {
78         if(textBoxForm1.InvokeRequired)
79         {
80             textBoxForm1.Invoke(new Action(() => textBoxForm1.Text
81                                     += text + Environment.NewLine));
82             Console.WriteLine("Invoke");
83         }
84         else
85         {
86             textBoxForm1.Text += text + Environment.NewLine; //
87             // Fügt Text mit Zeilenumbruch hinzu
88             Console.WriteLine("Invoke + Newline");
89         }
90     }
91 }
92
93
```