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**Join, Sleep and Interrupt methods in C#
Threading
(<https://www.mindstick.com/Articles/1487/join-sleep-and-interrupt-methods-in-c-sharp-threading>)**



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Previously, we learn about DLL in Creating and Using Dll (Dynamic Link Library) in C#

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now we see Join Sleep and Interrupt methods in c# Threading

In this article I'm explaining about how to work thread in c#.

Joining Thread:

The Join method (without any parameters) blocks the calling thread until the current thread is terminated. It should be noted that the caller will block indefinitely if the current thread does not terminate. If the thread has already terminated when the Join method is called, the method returns immediately.

The Join method has an override, which lets you set the number of milliseconds to wait on the thread to finish. If the thread has not finished when the timer expires, join exits and returns control to the calling thread (and the joined thread continues to execute).



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This method changes the state of the calling thread to include WaitSleepJoin .

This method is quite useful if one thread depends on another thread.

In this example, we have create two threads I want the thread1 to run first and the thread2 to run after complete execution of thread1.

```

using System.Threading;

namespace ThreadWorking
{
    class Program
    {
        public static Thread thread1;
        public static Thread thread2;
        static void Main(string[] args)
        {
            thread1 = new Thread(new ThreadStart(FirstThread));
            thread2 = new Thread(new ThreadStart(SecondThread));
            thread1.Name = "First Thread";
            thread2.Name = "Second Thread";
            thread1.Start();
            thread2.Start();
            Console.ReadLine();
        }
        public static void FirstThread()
        {
            for (int i = 0; i <= 10; i++)
            {
                Console.WriteLine("Thread1 State [{0}] thread1 state {0}", i, thread1.ThreadState);
            }
        }
        public static void SecondThread()
        {
            Console.WriteLine("Thread2 State [{0}] just about to join, Thread1 State [{0}]", 0, thread1.ThreadState);
            thread1.Join();
            Console.WriteLine("Thread2 State [{0}] Thread1 State [{0}] Thread2 ThreadState, thread1.ThreadState, Thread.CurrentThread.Name);", 0, thread1.ThreadState, thread2.ThreadState, thread1.ThreadState, Thread.CurrentThread.Name);

            for (int i = 1; i <= 5; i++)
            {
                Console.WriteLine("Thread2 State [{0}], Thread1 State [{0}], Thread2 ThreadState, thread1.ThreadState, Thread.CurrentThread.Name, i.ToString()", i, thread1.ThreadState, thread2.ThreadState, thread1.ThreadState, Thread.CurrentThread.Name, i);
            }
        }
    }
}

```

Output

```

C:\Windows\system32\cmd.exe
Thread2 State [Running] just about to join, Thread1 State [Running], CurrentThreadName=Second Thread
Thread1 State [Running] thread1 0
Thread1 State [Running] thread1 1
Thread1 State [Running] thread1 2
Thread1 State [Running] thread1 3
Thread1 State [Running] thread1 4
Thread1 State [Running] thread1 5
Thread1 State [Running] thread1 6
Thread1 State [Running] thread1 7
Thread1 State [Running] thread1 8
Thread1 State [Running] thread1 9
Thread1 State [Running] thread1 10
Thread2 State [Running] Thread2 just joined Thread1, Thread1 State [Stopped], CurrentThreadName=Second Thread
Thread2 State [Running], Thread1 State [Stopped], CurrentThread='Second Thread'
1
Thread2 State [Running], Thread1 State [Stopped], CurrentThread='Second Thread'
2
Thread2 State [Running], Thread1 State [Stopped], CurrentThread='Second Thread'
3
Thread2 State [Running], Thread1 State [Stopped], CurrentThread='Second Thread'
4
Thread2 State [Running], Thread1 State [Stopped], CurrentThread='Second Thread'
5

```

Sleep:

The static Thread.Sleep () method available on the Thread class is fairly simple it simply suspends the current thread for a specified time. Consider the following example, where two threads are started that run two separate counter methods the first thread (thread1) counts from 0-30, and the second thread (thread2) counts from 31-60.

Thread thread1 will go to sleep for 1 second when it reaches 10, and thread thread2 will go to sleep for 5 seconds when it reaches 45.

```

using System.Threading;

namespace ThreadSleep
{
    class Program
    {
        public static Thread thread1;
        public static Thread thread2;
        static void Main(string[] args)
        {
            thread1 = new Thread(new ThreadStart(FirstThread));
            thread2 = new Thread(new ThreadStart(SecondThread));
            thread1.Start();
            thread2.Start();
            Console.ReadLine();
        }
        public static void FirstThread()
        {
            Console.WriteLine("Enter First Thread");
            for (int i = 0; i <= 30; i++)
            {
                Console.WriteLine(i);
                if (i == 10)
                {
                    Thread.Sleep(1000);
                }
            }
            Console.WriteLine("Exit First Thread");
        }
        public static void SecondThread()
        {
            Console.WriteLine("Enter Second Thread");
            for (int i = 31; i <= 60; i++)
            {
                Console.WriteLine(i);
                if (i == 45)
                {
                    Thread.Sleep(5000);
                }
            }
            Console.WriteLine("Exit Second Thread");
        }
    }
}

```

Output

```

C:\Windows\system32\cmd.exe
Enter First Thread
0 1 2 Enter Second Thread
31 32 33 34 3 4 5 6 7 8 9 10 35 36 37 38 39 40 41 42 43 44
45 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
30 Exit First Thread
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 Exit Second Thread

```

Interrupt:

When a thread is put to sleep, the thread goes into the WaitSleepJoin state. If the thread is in this state it may be placed back in the scheduling queue by the use of the Interrupt method. Calling Interrupt when a thread is in the WaitSleepJoin state will cause a ThreadInterruptedException to be thrown any code that is written needs to catch this exception.

```
using System.Threading;

namespace ThreadInterrupt
{
    class Program
    {
        public static Thread sleeperThread;
        public static Thread wakerThread;
        public static void Main(string[] args)
        {
            sleeperThread = new Thread(new ThreadStart(ThreadToSleep));
            wakerThread = new Thread(new ThreadStart(WakeThread));
            sleeperThread.Start();
            wakerThread.Start();
            Console.ReadLine();
        }
        private static void ThreadToSleep()
        {
            for (int i = 0; i < 50; i++)
            {
                Console.Write(i + " ");
                if (i == 10 || i == 20 || i == 30)
                {
                    try
                    {
                        Console.WriteLine("Sleep, Going to sleep");
                        Thread.Sleep(20);
                    }
                    catch (ThreadInterruptedException e)
                    {
                        Console.WriteLine("ForceFully Woken");
                    }
                    Console.WriteLine("woken");
                }
            }
        }
        private static void WakeThread()
        {
            for (int i = 51; i < 100; i++)
            {
                Console.Write(i + " ");

                if (sleeperThread.ThreadState == ThreadState.WaitSleepJoin)
                {
                    Console.WriteLine("Interrupting sleep");
                    sleeperThread.Interrupt();
                }
            }
        }
    }
}
```

Output

```

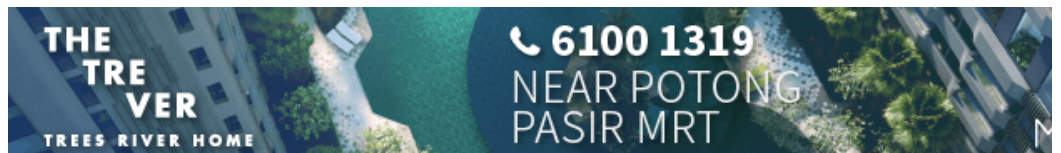
0 1 2 3 51 4 5 6 7 8 9 10 Sleep, Going to sleep at 10 Seconds
52 Interrupting sleeper
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 ForceFully
woken
11 12 13 14 15 16 17 18 19 20 Sleep, Going to sleep at 20 Seconds
woken
21 22 23 24 25 26 27 28 29 30 Sleep, Going to sleep at 30 Seconds
woken
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 _
  
```

You may also want to read: Join, Sleep and Abort methods in C# Threading (<http://www.mindstick.com/Articles/99c775b1-ac52-42c4-a83c-3e44cc1698a3/Join%20Sleep%20and%20Abort%20methods%20in%20C%20Threading>)

In my next post, we are going to learn about : Multithreading in C# (<http://www.mindstick.com/Articles/7d61a34a-5c86-480c-957b-bce839afe79b/Multithreading%20in%20C>)



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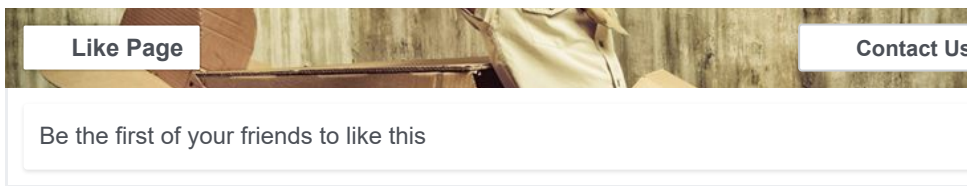
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