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Shut Down, Restart, Log off, Lock, Hibernate or Sleep Your Computer in C#



ProgramFOX, 1 Dec 2014

CPOL

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A tip about how to shut down, restart, log off, lock, hibernate or sleep your computer in C#.

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Introduction

In this tip, I'll tell you how to shut down, restart, log off or lock your computer in C#.

Using the Code

First, add this **using** namespace statements:

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```
using System.Diagnostics;
using System.Runtime.InteropServices;
```

To shut down your computer, use this code:

[Hide](#) [Copy Code](#)

```
Process.Start("shutdown", "/s /t 0"); // starts the shutdown application
// the argument /s is to shut down the computer
// the argument /t 0 is to tell the process that
// the specified operation needs to be completed
// after 0 seconds
```

To restart your computer, use this code:

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```
Process.Start("shutdown",
"/r /t 0"); // the argument /r is to restart the computer
```

To log off, add this **extern** method to your class:

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```
[DllImport("user32")]
public static extern bool ExitWindowsEx(uint uFlags, uint dwReason);
```

Then, to log off, invoke the method:

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```
ExitWindowsEx(0,0);
```

To lock your computer, add this **extern** method to your class:

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```
[DllImport("user32")]
public static extern void LockWorkStation();
```

Then, to lock, invoke the method:

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```
LockWorkStation();
```

To put your computer in **Hibernate** or **Sleep**, you need the same **DllImport** statement for them. Thanks to [Virender Prajapati](#) for suggesting to add these!

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```
[DllImport("PowerProf.dll", CharSet = CharSet.Auto, ExactSpelling = true)]
public static extern bool SetSuspendState(bool hibernate, bool forceCritical, bool
disableWakeEvent);
```

To bring your computer into **Hibernate**:

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```
SetSuspendState(true, true, true);
```

And to bring it into **sleep**:

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```
SetSuspendState(false, true, true);
```

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About the Author



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 Belgium

I'm a hobbyist programmer. My favourite languages are C#, JavaScript, and Python. I also like chess; you can [find me on Lichess](#).

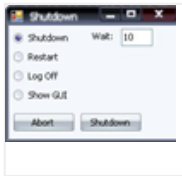
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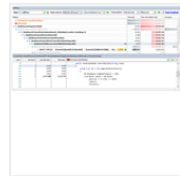
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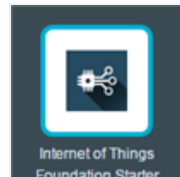
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Hibernate Condition (My vote of 5 for simplicity) 

Vekool_Coder 23-Sep-15 20:02

My vote of 5 

Robert J. Good 2-Dec-14 13:05

Re: My vote of 5

ProgramFOX 3-Dec-14 5:30**You can add hibernate and sleep options also****Virender Prajapati** 30-Nov-14 21:07

Re: You can add hibernate and sleep options also

ProgramFOX 1-Dec-14 6:43**+5 vote****Meher Khan** 10-Aug-14 0:20

Re: +5 vote

ProgramFOX 17-Aug-14 0:32**My vote of 5****Gun Gun Febrianza** 23-Oct-12 22:27**Hello****Gun Gun Febrianza** 23-Oct-12 22:26

Re: Hello

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