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Subject: Re: Shutdown procedure by clicking red x  
Posted by [nlneilson](#) on Thu, 09 Dec 2010 20:37:13 GMT  
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After searching found this that gets deep into the red X to close:  
<http://www.codeguru.com/columns/vb/article.php/c15579>

Also a thread wait would not work as the threads will continuously run unless shut down, which was the problem that seldom happened that required taskmanager or the MS pop up to terminate the app.

With some semi intuitive reasoning to end the threads that have in a while loop with Sleep(980) added this:

```
// A global bool end;

while (CommPort.ReadDataWaiting() ) {
    if(end) break;
    ...
    Sleep(980);
    ....
}

void Exit0() {
    end = true; Sleep(2000);
    if(CommPort.IsOpened()) CommPort.Close();
    if(CommPort2.IsOpened()) CommPort2.Close();
    Thread::ShutdownThreads();
    Break(); // Closes window with 'Cancel'
}

void endX(){end = true; Sleep(2000);}

GUI_APP_MAIN{
    GPSv2().Run();
    endX();
    if(CommPort.IsOpened()) CommPort.Close();
    if(CommPort2.IsOpened()) CommPort2.Close();
    Thread::ShutdownThreads();
}
```

Setting end = true; and the Sleep(2000); gives the while loop time to break.

Sometimes if a GPS receiver is not closed properly pulling the receiver plug is about the only way.

This works when clicking the red x (or at least I have not had the error again) as well as the explicit Exit.

Neil

<http://www.nlneilson.com/gpsv2.html>

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