If running your script does not induce a syntax error then either it worked as you intended it or it contains a logic error, i.e., the script still may not work properly while running: it may be mis-calculating a value, or perhaps an **if** condition is using the logically wrong (but syntactically valid) operator. These are logic errors.  
  
To debug a logic error can be very time consuming as you would need to inspect every line in your script. This is known as tracing.  
  
Some common logic errors:  
  
1. Using the 'less than' symbol < when you meant to use the 'greater than' symbol > or vice versa  
  
2. In an 'if' statement, using the 'and' symbol && when you meant to use the 'or' symbol || or vice-versa. This happens often when using negation.  
  
Some advice if you can't find your logic error within a reasonable amount of time:  
  
1. insert window.alert statements into your script to let you know where you are and what's happening. You add a call to the alert() method into a sequence of lines of code. Test your code, and see if the alert dialog box you inserted shows up or not. Remove that alert(), and put another one someplace else. Keep testing with the alert() method in various locations until you pinpoint the precise point in the code where everything breaks down.  
  
2. Comment out unessential code and try to run the block you're having trouble with. Once you've solved any problems in that section, allow a few more lines in by removing the comments on those lines. Now debug those lines of code. Continue the process until you've got a clean working script.  
  
3. Print out your code since it's easier to spot errors on printed paper than reading it on the screen.  
  
4. Take a break. Persistence doesn't mean you have to solve every problem in one session. The longer you leave the problem, the more likely you'll be able to see it with fresh eyes and spot your error immediately. Perhaps, sleep on it.   
  
  
The biggest secret to debugging code is NOT to let yourself get frustrated. Mistakes and bugs in code are NORMAL, and you should ALWAYS expect them. If code works right the first time, it's usually a fluke and a cause for celebration; I dance around the house, patting myself on the back, on the rare occasions when that happens!  
  
Methodical coding procedures are also of paramount importance. Once you've gotten a grasp of what good coding form is all about, you will need to develop certain habits, producing code in a very regular and regimented fashion.  
  
Here are some good sites for debugging tips on load-time errors, run-time errors, and logic errors:  
  
<http://www.cross-browser.com/talk/debug_tips.php>  
<http://www.javaworld.com/javaworld/jw-07-1996/jw-07-javascript.html>  
<http://javascript.about.com/od/reference/a/error.htm>