**What is a High-Quality Programming Code?**

High quality code is important to ensure constant and consistent business process, a minimum of human interaction (and therefore a minimum of human error), and an easily maintainable system such that it does not need constant attention. The main properties of high quality code are:  
  
-reliability: will your code function every time it is run, or will it break down, will it throw out errors, will it produce different results even though you're runnning the same data through it?  
  
-robustness: will the code handle whatever data is thrown at it, can it handle errors in the dataset, can it handle blanks in the dataset, can it detect errors and mitigate them  
  
-usability: how easy is the code to use, do you have to keep tweaking it to make it work, can an untrained user use the code, how easy is the code to edit  
  
-portability: can your code be used on different computers, different operating systems, can your code be used in different companies, or different countries  
  
-maintainability: how easy is it to edit the code, how easy is it to change the processes, how often do people have to update the code, how well commented is the code