Demetruis Vassar

CM 907

Lab 5 Questions

Question 1) In your own words, explain the process of TDD.

Test-Driven Development allows programmers to ensure clean, quality code that "evolves" with each more complex test. Before any code is developed, a test must be written, and then once that test is written, no more tests can be written until the test in question is satisfied. Also, it reduces the need for debugging code.

Question 2) Do you agree with the claims that (a) it increases the confidence software developers have in their code, and (b) it improves overall code quality.

Yes, it increases the confidence in code and improves the overall code quality due to having to think, modify, and react to each test. The code continues to grow more robust and the programmer gains more satisfaction with each successful test that gets passed.

Question 3) Based on your experience with this lab, please specify advantages and disadvantages of TDD.

Advantages:

- Ensures that the code works
- Checks for errors produced by a particular section of code.
- The programmer begins starting on easy code which slowly grows more difficult as the code gets more complex, instead of a really difficult, complicated test code.

Disadvantages:

- Time Consuming
- Tests become tedious, especially when the programmer knows the full solution, but has to incrementally improve existing code.
- If a particular test is error-prone either by human error or code issues, the programmer is unable to progress any further.