Homework 07, CPSC-4175

Chapter 6, Object-Oriented and Classical Software Engineering Octber 2, 2017

- 1. Where, in the software construction process, should testing occur? Explain your reasoning.
- 2. Explain the differences and similarities between verification and validation.
- 3. Explain the difference between execution-based-testing and non-execution-based-testing.
- 4. Discuss the concept of quality as that word is used in the phrase "software quality assurance."
- 5. Why should software not be tested by the implementors, and not implemented by the testers? Think of an illustration from your life experience (not necessarily IT related).
- 6. Explain the difference between correctness proofs and execution testing? Which is "better?" Why?
- 7. Read the article *The Coming Software Apocalypse* in the PDF directory. Wrote a one paragraph appreciation of the article.
- 8. In regard to that article, how do you see your role in addressing the concerns raised in that article? Do you really think that there will be a "software apocalypse?"