**CMPE 314 LAB Week 1 Answers**

1) It is not possible to think about like that. Every language has pros and cons. This helps us to consider which language we are going to choose. Let me explain with examples, if we are going to build full stack web application and our priorities are fast, secure and easy, then we can compare languages with using these specifications.

2) In my opinion, a perfect programming language needs to be close to human language. That’s mean, it is similar with high-level-language in programming. And, also it has to have all of the protocols that we use these days.

3) Java with Spring Framework has a lot of pros comparing to its cons. It is really fast and secure. Because it is really close to machine language. Otherwise, it takes really huge time to code because of it is syntax. I want to point out another language which is python. It is really strong and powerful language that use for hacking and others. If you want to do lambda expression with changing values, you just only need to write one line of code. That’s why, it is really easy and effective. In contrast to that, it is slow comparing to Java. Because, it is high level language that is not close to machine language.

4) If we distinguish between uppercase and lowercase letters, we need to consider database and other logics related to that. This is very hard to implement. For example, if we search a username in DB, we should have an algorithm that looks and differentiate between uppercase and lowercase letters. In contrast to that, it is more secure and reliable for the system. Otherwise, it is really easy to implement and also search in DB. Even we need an algorithm that is easier than the old one.

5) JAVA, Java SCRIPT, Python, SCALA, C++