5. **We have a term paper.** In preparation: Chose a language of interest you do not know yet, or you know less. Compare it with a language with which you are familiar. Prepare a class presentation for the subject where you show examples of usage and underline differences. advantages, etc. For this assignment, just write a short proposal, less than one page

Resource:

https://www.geeksforgeeks.org/similarities-between-java-and-c/

Coding Languages Java and C++

I have worked with Java since my senior year of high school and I feel as though I possess a proficiency for it. While attending college, I have learned that while Java is still used today, it is somewhat of a dying language within the realm of computer science. In my work within school and the virtual reality club that I run, I have heard of the usefulness and compatibility of C++ as a coding language. Many games are written in C++ as well as applications. As I have never touched upon this language I have always heard that it is similar to Java.

Similarities

* Both C++ and Java supports Object Oriented Programming
* They have similar syntax
* Comments Syntax are identical
* The loops (like while, for etc.) and conditional statements (like if-else, switch etc.) are similar
* Both have same arithmetic and relational operators
* Execution of both the C++ and Java programs starts from the main function
* They have same primitive data types

Here are some advantages that both of these languages have:

They support inheritance which is a process by which objects of one class can link and share common properties of objects of another class.

They support polymorphism which is a process of using a function for more than one purpose.

They support abstraction which is the act of representing essential features without including background details.

They support encapsulation which is the process of wrapping data and functions into a single unit

Application:

Java is best suited to develop internet application software, network protocols, internet programs and web browsers.

C++ is best suited for developing large software management systems, for libraries, employees, ect.

Resource: https://www.softwaretestinghelp.com/cpp-vs-java/

Differences:

* Java is platform independent and C++ is platform dependent. Java can be executed on any platform
* C++ has manual memory management while Java memory is system-controlled.
* C++ has multiple inheritance while Java only has single inheritance.

There are many more differences between the languages, but this can be included in a later report.