Jesse Jesseman

12/14/2022

**Programming Languages Explanation**

1. **Explain the benefits and drawbacks of using C++ in a coding project**.

Using C++ has many advantages such as that it is much easier to use than lower-level coding languages such as binary. In the same point it takes up a lot more space but is a lot easier to learn and understand. It also allows for the integration of other languages such as python. A major drawback of C++ is that it does not support garbage pickup and it is not secure because it is a pointer.

1. **Explain the benefits and drawbacks of using Python in a coding project**.

Python is a very data-oriented programming language which means that it was able to use the data provided in the TXT file and make a useful program with it. Python is also very easy to learn and understand what code does what. With that being said, python is also slower than other languages such as c and C++ and its memory consumption is very high.

1. **Discuss when two or more coding languages can effectively be combined in a project**.

Using more than one coding language in a single project complexes the whole project as you need to be able to dictate and define each which is not easy to do. If I had to work with both languages, I would rather use a framework to do so. If you where to add a third language to code in, you would have to make sure that the types are correctly mapped otherwise the ways to represent the basic data type become mixed up causing errors in codes. When I have worked with java in the past the one language, I would add to it would be python for its data handling capabilities. Learning from my brother-in-law having multiple languages in code is very common now adays as it allows programs to become more involved unlike if you where to just use one coding language.