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Module 1 Assignment

CS-210

Explain the benefits and drawbacks of using C++ and Visual Studio in a coding project.

There are many benefits of using C++ and Visual Studio in a coding project. One mainly being that it is an object-oriented programming language. This makes the program much more manageable, organized, and easy to add to. Also, the C++ standard library has many functions that are available quickly, making it much easier for the programmer to write code quickly and efficiently. A drawback of using C++ and Visual Studio would be the build times. Sometimes C++ requires more lines of code to complete certain tasks. This can potentially increase development time.

Explain the benefits and drawbacks of using Java and Eclipse or Python and PyCharm in a coding project.

Building Java programs in Eclipse is beneficial because Eclipse was made especially for Java, and caters specifically to it. It also has tools built in specifically for the language. A drawback to that would be that you have to use multiple programs to code, and switch between them which can become cumbersome.

Describe the advantages of being able to code in multiple coding languages and compilers.

Note: Consider the module resources to answer this question.

Some advantages of being able to code in multiple languages and compilers would be that certain projects may require different languages and technologies based on what you are building. It allows programmers to choose the most suitable language for the task at hand. Also, each language has its own tools and libraries. Knowing multiple languages will allow you to choose the most appropriate language for the project being worked on.