CISC 179 Lab 1

1. Create a two-column table; the first column stores the number of languages, and the second column stores the type of language (compiled, interpreted, or both).

1-6 found in reading 7-12 found through research

|  |  |
| --- | --- |
| Number of languages | Type of language (compiled, interpreted, or both) |
| 1. Python 2. CPython 3. Cython 4. Jython 5. PyPy 6. RPython 7. C++ 8. Java 9. JavaScript 10. Go 11. Ruby 12. Rust | 1. Interpreted 2. Interpreted 3. Both 4. Both 5. Both 6. Compiled 7. Compiled 8. Both 9. Interpreted 10. Compiled 11. Interpreted 12. Compiled |

1. Discuss the real-world example where Python performance is superior to compiled languages such as C++. To answer this question, you need to do some research.
   1. Some real-world examples where Python performance is superior to compiled languages such as C++ are (all of which I have some experience in):
      1. Data Processing- manipulating data with libraries such as Pandas make it easier to read, write, and understand.
      2. Machine Learning- creating machine learning models with libraries like TensorFlow make it easier and faster.
      3. Backend web development- A framework like Flask allows for fast development of web applications. C++ can make it faster to run but Python makes it easier and faster to deploy.
2. Take a screenshot that shows that Python3 is installed successfully on your PC. The screenshot should show the installed Python version.
   1. A screenshot of a computer program

      Description automatically generated
3. Take a screenshot that shows that the Github repository is all set up for this course.
   1. A screenshot of a computer

      Description automatically generated
   2. A screenshot of a computer

      Description automatically generated