One of the most principal functions in an application is accessing and modifying data. While databases are the most common repository for data, there are other types of files that are commonly used.

* Research the different types of non-database files that can be used in an application and describe one of these files.
* Explain why they would be used in place of a database table.
* Describe one coding technique that you would use in Python to access that data.

1. An XML file. A news story could be stored as an XML file. this file could be full of data. the location of the news, details about that location, history of things that happened, people names, dates, and what actually was happening. All this data is in the article however it is not organized in respect to any other XML file.
2. Instead of having to set-up a data entry program, enter all the data in, and organize the data, it would be nice to just save all the data from the article in the XML file and be able to use it.
3. Marklogic is the perfect example of how to use data as it exists and is compatible to use in Python.

I researched Marklogic to learn what it was all about. This is a company that saw a need to be able to take data wherever you find it and easily plug it in anywhere to use it. The company is all about saving time, money, and resources. Basically, not continuing to re-create the wheel. JSON, XML, text, binary, and RDF triple. Different Types can all be in the same database. Documents can be loaded into a database through a variety of mark logic interfaces. Documents such as PDF or Word can be converted to an XML document while being loaded into a Marklogic database by using the files as you're loading them into the database using a technology called the content processing framework.

The analogy that helped me understand what Marklogic is all about was to imagine you're going to build a concrete building. you need to make a lot of design decisions before you pour the concrete. once you have the concrete building constructed hopefully, you're happy with it because it's very time consuming and costly to make any changes. Marklogic allows you to use data wherever you find it and just plug it in and decide what you want your output to look like. You don't need to worry up front of what the output is going to look like before you begin entering the data. Data exists everywhere so mark logic allows us to use it where we find it when we find it and whatever format it's in.