**TOPIC: A SHORT SUMMARY ON DATA ENCAPSULATION**

The Breakdown

What is data?

Data refers to raw facts, figures, or information that are collected, observed, or measured and can be used for various purposes. Data can exist in various forms, such as numbers, text, images, audio, video, or other digital formats.

What is Encapsulation?

The act or process of containing something but also the act or process of summarizing or condensing information.

What is Data Encapsulation?

It is a mechanism of restricting access to certain components. The terminology is used in two main concepts:

* Data encapsulation in networking - Refers to the process of wrapping data with the necessary protocol information before it is transmitted over the network.
* Data Encapsulation in Object Oriented Programming (OOP) - Refers to the bundling of data and the methods/functions that operate on the data into a single unit known as a class. The purpose of this is to hide the data inside and reduce complexity of the main class by having less lines of code.
* seacrh for the top hundred most commonly used ports and their service and list them in a word document