**W03 Assignment: Explain Encapsulation**

I believe encapsulation is a very important principle when we build our code. With encapsulation we can group data and methods into a class and restrict direct access to the data. This helps us to maintain data integrity and prevent misuse.

With encapsulation we can protect our attributes inside the class. With access modifiers like PRIVATE and PUBLIC, I can control who accesses and modifies the attributes on the class. I also think that it is very valuable because I can protect class attributes not just from external interference, but also from myself as a developer. This reduces the risk of accidentally altering the data.

Texto

Descripción generada automáticamente

In this example, I have made the attributes private so they can only be accessed and modified by the methods inside the class. I think this approach adds security and control and prevents me from unintentionally modifying any of these attributes that can cause bugs or errors.