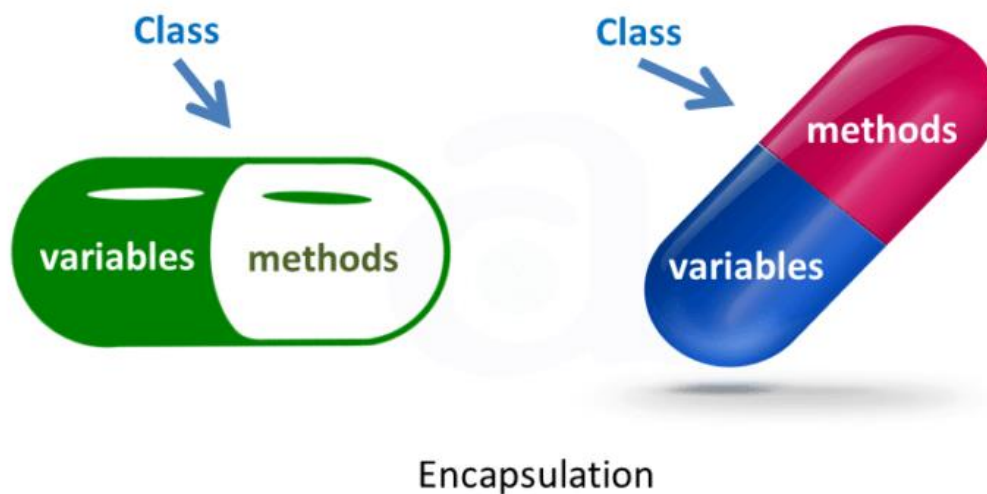


Encapsulation

Encapsulation is an Object Oriented Programming concept that **binds together the data and functions** that manipulate the data, and that keeps both **safe** from outside interference and misuse. Data encapsulation led to the important OOP concept of data hiding.



Data encapsulation is a mechanism of **bundling the data, and the functions** that use them and **data abstraction** is a mechanism of **exposing** only the **interfaces** and **hiding the implementation** details from the user.

C++ supports the properties of encapsulation and data hiding through the creation of user-defined types, called classes

OR

Encapsulation is a process of **combining data members and functions in a single unit called class**. This is to prevent the access to the data directly, the access to them is provided through the functions of the class. It is one of the popular feature of Object Oriented Programming(OOPs) that helps in data hiding.

How Encapsulation is achieved in a class

To do this:

- 1) Make all the data members private.
- 2) Create public setter and getter functions for each data member in such a way that the set function set the value of data member and get function get the value of data member.