**What is encapsulation and why is it important?**

Encapsulation is the process of hiding members of classes from other codes. It can also be described as the act of restricting access to class attributes and methods from other methods to prevent direct changes (which can be accidental) to those methods. It is done by using Access Modifiers to declare which parts of a class will be private or public.

A vital reason for encapsulation is to prevents direct change to attribute by other code which can cause problems to our program. It is important because sometimes there can be attempt to accidentally change class attributes, but the fact those attributes have been encapsulated prevents such.