**1.What is encapsulation in python ?**

Encapsulation in Python is the process of wrapping up variables and methods into a single entity. In programming, a class is an example that wraps all the variables and methods defined inside it.

In encapsulation we restrict the access of methods and variables in class.

**2.Why we need encapsulation?**

Encapsulation acts as a protective layer by ensuring that, access to wrapped data is not possible by any code defined outside the class in which the wrapped data are defined. Encapsulation provides security by hiding the data from the outside world.

To prevent data form being modify accidentally.

In Python, Encapsulation can be achieved by declaring the data members of a class either as private or protected.

In Python, 'Private' and 'Protected' are called Access Modifiers, as they modify the access of variables or methods defined in a class.

**3. How can we achieve Encapsulation in Python?**

In Python, Encapsulation can be achieved using Private and Protected Access Members.

**4. How can we define a variable as Private?**

In Python, Private variables are preceded by using two underscores.

**5. How can we define a variable as Protected?**

In Python, Protected variables are preceded by using a single underscore.

