Python Notes

Data Abstraction

* Data Abstraction is an OOPS concept that hides unnecessary implementation details and only shows the essential features of an object.

How does Abstraction work in inheritance?

* Define common functionalities in a parent class while hiding implementation details.
* Force child classes to implement specific methods (using abstract methods).
* Ensure that only relevant details are exposed to users.

In Python, Abstraction is achieved using,

* Abstract Classes
* Abstract Methods
* The ABC module

Key Features

* Hides Complex details.
* Enforces a structure for child classes.
* Promotes reusability – same abstract class can be inherited by multiple child classes.