Object oriented programming in python

**Class:**

It’s a blue print for an object. Object is a collection of variables and methods that act on data.

**Encapsulation of Data:**

Hiding data or restricting access to methods or code or variable is called encapsulation. This protects the data from accidental modification.

Ex: Folder on the desk with a password.

**Inheritance:**

We can inherit the method from superclass (the class the initially has the method/parent class) and reuse it in subclass (the child class). We can make changes in subclass if necessary.

Ex: Reusing a vehicle from siblings or parents.

**Polymorphism:**

A method/code of a specific class can be used for different classes if they are in same category. (Or)

Ability to apply a specific code/method of an object to various forms.

Ex. All vehicles should stop at STOP sign will imply to Cars/Buses/Bikes/Vans stopping at STOP sign