

characteristics of oop in python

- **Classes and Objects:** Define and create entities with attributes and methods.
- **Encapsulation:** Bundles data and methods, hides internal state.
- **Inheritance:** Allows a class to inherit from another, promoting reuse and hierarchy.
- **Polymorphism:** Enables methods to operate differently based on the object's type.
- **Abstraction:** Hides complex details, exposing only necessary features.