What is

OOP

Facts4web

Object-oriented programming technique that binds related data and functions into an object and encourages reuse of these objects within the same and other programs.

Facts4web

Building Blocks of OOP

- Classes : are user-defined data types that act as the blueprint for individual objects, attributes and methods.

- Objects : are instances of a class created with specifically defined data.

- Methods : are functions that are defined inside a class that describe the behaviors of an object.

- Attributes : are defined in the class template and represent the state of an object. Objects will have data stored in the attributes fields and methods.

Four Principles of OOP

- Inheritance : Child classes inherit data and behaviors from parent class.

- Encapsulation : Containing information in an object, exposing only selected information.

- Abstraction : Only exposing high level public methods for accessing an object.

- Polymorphism : Many methods can do the same task.