

What is OOPs?

- It stands for Object-Oriented Programming.
- It is based on objects
- It follows Bottom-up programming approach.
- It is based on real world.
- It provides data hiding so it is very secure.
- It provides reusability feature.

What is a class?

A class is a collection of objects. Classes don't consume any space in the memory.

It is a user defined data type that act as a template for creating objects of the identical type.

A large number of objects can be created using the same class. Therefore, Class is considered as the blueprint for the object.

What is an object?

An object is a real world entity which have properties and functionalities.

Object is also called an instance of class. Objects take some space in memory.

For eg .

Fruit is **class** and its **object** s are mango ,apple , banana

Furniture is **class** and its **objects** are table , chair , desk

What is the difference between a class and an object?

Class	Object
1. It is a collection of objects.	It is an instance of a class.
2. It doesn't take up space in memory.	It takes space in memory.
3. Class does not exist physically	Object exist physically.
4. Classes are declared just once	Objects can be declared as and when required