**Objective C Memory Management**

* Memory management is One of the most important process of allocating memory for Program.

In Objective C memory management classified in two types.

* manual memory management.
* Automatic Reference Counting.

**Manual memory management:**

* Before ios 4 developer has to take care of creating an object and destroying an Object. it is manual memory management. It is non ARC(automatic reference counting) where we have to retain/release the Objects.
* When you sent retain  message to the object the retain count is increased by 1 and when you sent release the retain count is decreased by 1. Finally when an objects retain count is 0, the memory for that object is released.

**Automatic Reference Counting:-**

* after ios 5 automatic reference counting is introduced means Xcode will take care of releasing the Objects. When It has to destroy it will decided by the complier.
* In iOS objects should be in memory or not, depends on the objects retain count.
* Whenever you create an object the retain count is 1 for particular Object.
* You are allocating Object by using new , copy, and alloc method.
* Every time you new Object is added reference count is increased by 1.
* When reference count is zero it will automatically deallocate the memory

and Object will be destroyed.

The difference between manual memory management and Automatic Reference Counting retain and release taken care by automatically.