***Object Cloning:-***

*It is the process of creating an exact copy of existing object, duplicating its state , but at different memory location.*

*Class must implement Cloneable interface. 🡪Market interface(Tag interface🡪 Task is to provide extra information to JVM , then JVM is responsible to add implementation to that tag interface)*

*Protected Object clone() throws CloneNotSupportedException*

*It is present in java.lang package.*

*It is used to provide security , we can clone object and make changes to it without making modifications to original Object.*

*We can do modifications at runtime to object by cloning process.*

*Can create object without using “ new “ keyword.*

***Lifecycle of Object:-***

1. *Object creation*
2. *Initialization of Variables*
3. *Usage->Method invoking*
4. *Unreferences object is eligible for GC using finalize(Optional)*
5. *GC called -> Unreference object gets destroyed.*
6. *Deallocation of memory.*