**Concurrent Collection– Part\_17**

* **Difference between CopyOnWriteArrayList, synchronizedList() and Vector:**

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| CopyOnWriteArrayList | synchronizeList() | Vector |
| We will get Thread-Safety because every update operation will be performed on separate cloned copy. | We will get Thread-Safety because at a time list can be accessed by only one thread. | We will get thread-safety because at a time vector can be accessed by only one thread. |
| At a time multiple thread can be allowed to operate on CopyOnWriteArrayList | At a time only one thread is allowed to operate on List object. | At a time only one thread is allowed to operate on Vector object. |
| While one thread iterating List object, the other threads are allowed to modify and we won’t get ConcurrentModification Exception. | While one thread iterating List object, the other threads are not allowed to modify, otherwise we will get ConcurrentModification Exception. | While one thread iterating Vector object, the other threads are not allowed to modify, otherwise we will get ConcurrentModification Exception. |
| Iterator is fail-safe and won’t faise CME | Iterator is fail-fast and will raise CME. | Iterator is fail-fast and will raise CME. |
| Iterator can perform only read operation by not remove operation, otherwise we will get RE: UnsupportedOperation Exception | Iterator can perform both read and write operations. | Iterator can perform both read and write operations. |
| Introduced in 1.5 version | Introduced in 1.2 version | Introduced in 1.0 version. |