## **LINKEDLIST**

- LinkedList INTERNAL WORKING?
  - (1) Internally doubly linkedList uses.
  - (2) better for frequent insertion and deletion
  - (3) linkedList has slower random access because it has to traverse list from the beginning to reach desired index.
  - (4) linkedList requires more memory as compare to array List.

## CODE EXAMPLE:

```
list.addFirst(7);
```

```
// getFirst ()
list.getFirst();

// getLast ()
list.getLast();

// remove () with index
list.remove(3);

// remove () with obj
list.remove(Integer.valueOf(3));

// removeFirstOccurrence () : if multiple time exist it will
remove first one
list.removeFirstOccurrence(1);

// removeLastOccurrence () : if multiple time exist it will
remove last one
list.removeLastOccurrence(9);

// removeAll () : remove matching value
LinkedList<String> li1 = new
LinkedList<>(Arrays.asList("cat","dog","elephant"));
LinkedList<>(Arrays.asList("cat","dog","lion"));
li1.removeAll(li2);// elephant, lion
System.out.println(li1);

// linkedList completed as array list (individually)
behaviour rest in next chapter.
}
```