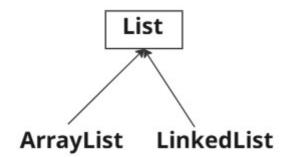
List Interface:-



1) ArrayList

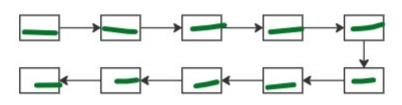
Arrays

- => size of the array is fixed
- => store only same type of data

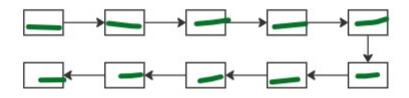
ArrayList

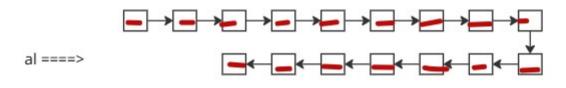
- => It is called as resizeable array(size of the array can be increase OR decreased depending on the elements)
- => It can store same type of data OR different type of data

ArrayList al = new ArrayList() with a capacity of 10 elements



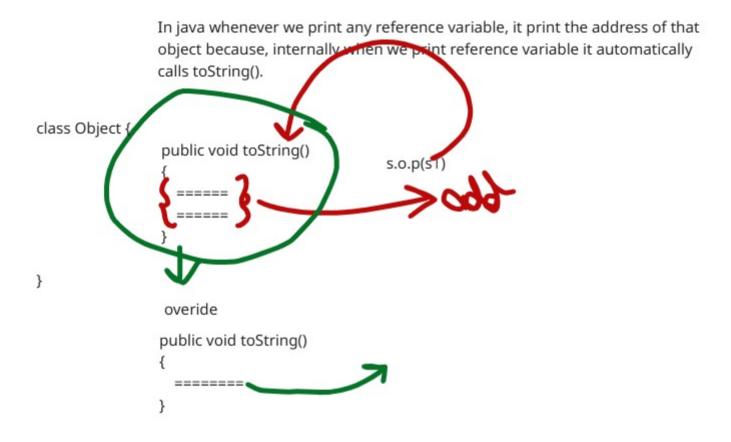
newcapacity = (oldcapacity * 3) / 2 + 1 newcapacity = 16





==> It allows duplicate elements to be stored

==> It maintains the insertion order



sort() fails to sort elements in the arraylist because, the elements in teh array list are student objects.

If we want to sort the objects, then take the help of another person along with sort() ==> Comparator(I) Comparator(I) ==> compare() ==>

```
// student1 = "Ramu", 14
// student2 = "Mary", 13
```

public int compare(Student student1, Student student2) {
 student1 age - student2 age
}

14 - 13 ==> +ve ==> get swapped

"Mary 13", "Raju 14"

==> We should never choose ArrayList if our operation frequently is INSERTION.==> Use ArrayList if the operation like reading has to be done

When to use ArrayList and when not to use ArrayList