Linked List - dynamic -> arrays ale contagions but LL not 7 generie Head (30/400/ **S** 10/150 40 NULL

Dete Nent rode of list Nadl Syntase
String new Linkedliel <>() Linked list & Data Types 12 1) Adding Elements · addfüst ("");

· addfüst (e"); 11. add ("Gunnay"); 12. add ("Sharna");

Gunnay Shelma

2) Change Elements

11. set (0, "mansi"); 1/ Mansi Sharna

3) Sice

U. size();

11. is Empty(); 1/ whether It is empty or not

4) Remove Element 11. Remore (indere); ll. remove ["Sherna"]. 11. SamoulFish(); ll. remoneLast(); 5) LL to Array by using to Array (); bjet Da = U. KAeray (1) for (object elen: a) Syso (clem)

```
class Main {
   public static void main(String[] args) {
     LinkedList<Integer> list = new LinkedList<>();
     list.add(5);
     list.add(10);
     list.add(15);
     System.out.println(list);

     //Object[] a = list.toArray();
     Integer[] a = list.toArray(new Integer[0]);
     for(int elem : a){
           System.out.print(elem + " ");
     }
     }
}
```

```
import java.util.LinkedList;

class Main {
  public static void main(String[] args) {
    LinkedList<String> list = new LinkedList<>();
    list.add("abc");
    list.add("ss");
    list.add("15");

    // direct // explicit call
    System.out.println(list.toString());

    System.out.println(list); // implicit
```

Output [5, 10, 15] 5 10 15 === Code Execution Successful ===

```
Output
```

[abc, ss, 15] [abc, ss, 15] Traversing It rising loops.

```
import java.util.LinkedList;
class Main {
    public static void main(String[] args) {
      LinkedList<String> list = new LinkedList<>();
      list.add("Gunmay");
      list.add("Sharma");
      list.add("Mansi");
      list.add("Sharma");
        // for loop
      for(int i = 0; i < list.size(); i++){</pre>
          System.out.print(list.get(i) + " ");
      }
      System.out.println();
      // for each loop
      for(String str : list){
         System.out.print(str + " ");
     }
```

```
Output

Gunmay Sharma Mansi Sharma

Gunmay Sharma Mansi Sharma

=== Code Execution Successful ===
```

TC \rightarrow O(n)except insert/delete

from Head O(1)