**Linked List:**

Linked list is an unordered list.

LinkedList can be declared as follows.

1. LinkedList object = new LinkedList();

It accepts any data type

1. LinkedList<String> object = new LinkedList<String>();

It accepts only String type.

Example:

In the following example we will work with the following operations.

1. Adding elements to LinkedList
2. Getting size of LinedList
3. Getting the elements of the LinkedList by using for each loop
4. Getting the elements of the LinkedLIst by using Iterator
5. Removing an element by value
6. Removing an element by index
7. Removing first element of the list
8. Removing last element of the list
9. Checking if the Linked List contains a particular value
10. Getting a value using index
11. Setting a value using index

**package** package1;

**import** java.util.Iterator;

**import** java.util.LinkedList;

**public** **class** LinkedListExample {

**public** **static** **void** main(String[] args) {

//Creating an object of linked list

LinkedList<String> ll = **new** LinkedList<String>();

//Adding elements to the linked list

ll.add("Subbu");

ll.add("Selenium");

ll.add("Java");

ll.add("Tutorials");

ll.add("Subscribe");

ll.add("Youtube");

ll.add("Channel");

//Printing linked list

System.***out***.println(ll);

//Size of linked list

System.***out***.println("Size of linked list is "+ll.size());

//Printing each element using for each loop

System.***out***.println("Printing values using for each loop:");

**for**(String str : ll) {

System.***out***.println(str);

}

//Iterating through a list and printing values

System.***out***.println("Printing values by iterating through the list:");

Iterator itr = ll.iterator();

**while**(itr.hasNext()) {

System.***out***.println(itr.next());

}

//Removing an element using value

ll.remove("Channel");

System.***out***.println(ll);

//Removing an element using index

ll.remove(5);

System.***out***.println(ll);

//Removing first element

ll.removeFirst();

System.***out***.println(ll);

//Removing last element

ll.removeLast();

System.***out***.println(ll);

//checking if the list contains a particular element

**boolean** check = ll.contains("Java");

**if**(check) {

System.***out***.println("The list contains Java");

}

**else** {

System.***out***.println("It doesn't contain Java");

}

//Get an element from the list

String str = ll.get(1);

System.***out***.println("The string at 1st index is "+str);

//Setting an element in the list

ll.set(2, "Practice");

System.***out***.println(ll);

}

}