**TASK Day 04**

**LIST**

**package** com.drucare;

**import** java.util.ArrayList;

**import** java.util.LinkedList;

**public** **class** ListInterfaceMethods {

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

// **TODO** Auto-generated method stub

ArrayList al = **new** ArrayList();

al.add(10);

al.add(1, "First");

al.add(2, "Second");

al.add(3,20);

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

System.***out***.println("Does ArrayList contains 20 :"+al.contains(20));

System.***out***.println("Get element at 2: "+al.get(2));

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

System.***out***.println("Index of 10: " +al.indexOf(10));

al.ensureCapacity(2);

al.clear();

System.***out***.println("ArrayList after clear: "+al);

LinkedList ll =**new** LinkedList();

ll.addFirst(11);

ll.add(22);

ll.add(33);

ll.add(44);

ll.addLast(55);

System.***out***.println("Get first element: "+ll.getFirst());

System.***out***.println("Get last element: "+ll.getLast());

System.***out***.println("Index of 44: "+ll.indexOf(44));

System.***out***.println("Is LinkedList Empty: "+ll.isEmpty());

System.***out***.println("Last Index of LinkedList: "+ll.lastIndexOf(ll));

System.***out***.println("Offer: "+ll.offer(11));

System.***out***.println("Peek: "+ll.peek());

ll.set(1,66);

ll.removeLast();

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

}

}

**SET**

**package** com.drucare;

**import** java.util.HashSet;

**import** java.util.SortedSet;

**import** java.util.TreeSet;

**public** **class** SetInterfaceMethods {

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

// **TODO** Auto-generated method stub

HashSet hs = **new** HashSet();

hs.add("C");

hs.add("D");

hs.add("e");

hs.add('A');

hs.add("B");

hs.add(0);

hs.add(-1);

hs.add("A");

hs.add("C");

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

hs.add(2);

hs.add(1000);

hs.add(128);

hs.add(129);

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

hs.remove(1000);

System.***out***.println("Size: "+hs.size());

SortedSet ss = **new** TreeSet();

ss.add("a");

ss.add("b");

ss.add("e");

ss.add("f");

ss.add("d");

ss.add("c");

System.***out***.println("Sorted Set: "+ss);

System.***out***.println("first: "+ss.first());

System.***out***.println("Last: "+ss.last());

System.***out***.println("Headset of c: "+ss.headSet("c"));

System.***out***.println("TailSet of b: "+ss.tailSet("b"));

System.***out***.println("Size: "+ss.size());

System.***out***.println("Subset: "+ss.subSet("b", "e"));

ss.comparator();

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

}

}