**Assisted Practice: 2.3 Collections**

* Create a Java project in your IDE
* Write a program in Java to create collections

This lab has three subsections, namely:

* + 1. Writing a program in Java to verify implementations of collections
    2. Executing the program and verifying it is working
    3. Pushing the code to your GitHub repositories

**Step 2.3.1: Writing a program in Java to verify implementations of collections**

import java.util.\*;

public class collectionAssisted {

public static void main(String[] args) {

//creating arraylist

System.out.println("ArrayList");

ArrayList<String> city=new ArrayList<String>();

city.add("Chennai");//

city.add("Hyderabad");

System.out.println(city);

//creating vector

System.out.println("\n");

System.out.println("Vector");

Vector<Integer> vec = new Vector();

vec.addElement(15);

vec.addElement(30);

System.out.println(vec);

//creating linkedlist

System.out.println("\n");

System.out.println("LinkedList");

LinkedList<String> names=new LinkedList<String>();

names.add("Lucky");

names.add("Lakshmi");

Iterator<String> itr=names.iterator();

while(itr.hasNext()){

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

//creating hashset

System.out.println("\n");

System.out.println("HashSet");

HashSet<Integer> set=new HashSet<Integer>();

set.add(101);

set.add(103);

set.add(102);

set.add(104);

System.out.println(set);

//creating linkedhashset

System.out.println("\n");

System.out.println("LinkedHashSet");

LinkedHashSet<Integer> set2=new LinkedHashSet<Integer>();

set2.add(11);

set2.add(13);

set2.add(12);

set2.add(14);

System.out.println(set2);

}

}

}

**Output:**

**ArrayList**

**[Chennai, Hyderabad]**

**Vector**

**[15, 30]**

**LinkedList**

**Lucky**

**HashSet**

**[101, 102, 103, 104]**

**LinkedHashSet**

**[11, 13, 12, 14]**

**Lakshmi**

**HashSet**

**[101, 102, 103, 104]**

**LinkedHashSet**

**[11, 13, 12, 14]**