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Batch Code: ANP-C6315

Lab Assignment – 10

Question 1: Create LinkedList objects and perform all operations by using all methods of the Collection interface.

Input:

```
import java.util.LinkedList;

import java.util.Collection;

import java.util.Iterator;


public class Main {

    public static void main(String[] args) {

        // Creating a LinkedList

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


        // Adding elements

        linkedList.add("Apple");

        linkedList.add("Banana");

        linkedList.add("Orange");


        // Displaying elements using Iterator

        System.out.println("Elements in the LinkedList:");

        Iterator<String> iterator = linkedList.iterator();

        while (iterator.hasNext()) {

            System.out.println(iterator.next());
```

```
        }

        // Size of the LinkedList
        System.out.println("Size of the LinkedList: " + linkedList.size());

        // Removing an element
        linkedList.remove("Banana");

        // Checking if an element is present
        System.out.println("Is 'Banana' present? " + linkedList.contains("Banana"));

        // Clearing the LinkedList
        linkedList.clear();

        // Checking if the LinkedList is empty
        System.out.println("Is the LinkedList empty? " + linkedList.isEmpty());
    }
}
```

Output:

Elements in the LinkedList:

Apple

Banana

Orange

Size of the LinkedList: 3

Is 'Banana' present? false

Is the LinkedList empty? true