B.Gayathri- CSE. LAB 3

1)Min and Max in a List in Java

```
import java.util.Arrays;

import java.util.Collections;

import java.util.List;

public class MinMax {

    public static void main(String[] args) {

        List<Integer> numbers = Arrays.asList(4, 2, 9, 1, 7);

        int minValue = Collections.min(numbers);

        int maxValue = Collections.max(numbers);


        System.out.println("Minimum Value: " + minValue);

        System.out.println("Maximum Value: " + maxValue);

    }

}
```

Output

```
Minimum Value: 1

Maximum Value: 9
```

2)Split a List into Two Halves in Java

```
import java.util.Arrays;

import java.util.List;

public class SplitList {

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

```
        List<String> items = Arrays.asList("one", two", "three", "four", five", "six");
        int midpoint = items.size() / 2;
  List<String> firstHalf = items.subList(0, midpoint);
        List<String> secondHalf = items.subList(midpoint, items.size());
        System.out.println("First Half: " + firstHalf);
        System.out.println("Second Half: " + secondHalf);
    }
}
```

Output

```
First Half: [one, two, three]
Second Half: [four, five, six]
```

3)Remove Duplicates from ArrayList in Java

```
import java.util.ArrayList;
import java.util.Arrays;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;
public class RemoveDuplicates {
    public static void main(String[] args) {
        List<String> names = new ArrayList<>();
names.put("Gayathri");
names .put("gayu");
names.put("gaya3");
names.put("gayu");
```

```
        Set<String> uniqueNames = new LinkedHashSet<>(names);
        names.clear();
        names.addAll(uniqueNames);

        System.out.println( names);
    }
}
```

Output

[Gayathri,gayu,gaya3]

4)Add Element at First and Last Position of LinkedList in Java

```
import java.util.LinkedList;
public class LinkedList {
    public static void main(String[] args) {
        LinkedList<Integer> linkedList = new LinkedList<>();
        linkedList.addFirst(1);
        linkedList.addLast(5);
        System.out.println("Linked List: " + linkedList);
    }
}
```

Output

Linked List: [1, 5]