EvenNumberRemoval.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
/**
* Program Name: EvenNumberRemoval
* Description:
         : Keshav Abhishek
* Author
* Created On: 21-02-2025
* Organization: C.V. Raman Global University
* _____
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* ______
*/
public class EvenNumberRemoval {
 public static void main(String[] args) {
   ArrayList <Integer> data1 = new ArrayList<>();
   data1.add(100);
   data1.add(102);
   data1.add(103);
   data1.add(104);
   System.out.println("Before removal: " + data1);
   data1.removeIf(n->(n\%2==0));
   System.out.println("After removal: " + data1);
  }
}
```

IntersectionArrays.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
/**
* Program Name: IntersectionArrays
* Description:
          : Keshav Abhishek
* Author
* Created On : 21-02-2025
* Organization: C.V. Raman Global University
* _____
* Copyright (c) 2025, All rights reserved.
* ______
*/
public class IntersectionArrays {
  public static void intersectionArrays(){
    ArrayList <Integer> data1 = new ArrayList<>();
    ArrayList <Integer> data2 = new ArrayList<>();
    data1.add(100);
    data1.add(102);
    data1.add(103);
    data1.add(104);
    data2.add(100);
    data2.add(103);
    data2.add(105);
    data2.add(106);
    data1.retainAll(data2);
    System.out.println(data1);
  public static void main(String[] args) {
    intersectionArrays();
  }
```

MaximumElement.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Scanner;
/**
* ______
* Program Name: MaximumElement
* Description:
* Author
         : Keshav Abhishek
* Created On: 21-02-2025
* Organization: C.V. Raman Global University
* _____
* Copyright (c) 2025, All rights reserved.
* ______
*/
public class MaximumElement {
 public static void findLargest(){
   ArrayList <Integer> data = new ArrayList<>();
   Scanner sc = new Scanner(System.in);
   System.out.println("Number of elements: ");
   int times = sc.nextInt();
   for (int i = 0; i < times; i++) {
     System.out.print("Enter value: ");
     data.add(sc.nextInt());
    }
   sc.close();
   Collections.sort(data, Collections.reverseOrder());
   System.out.println("Largest element: " + data.get(0));
 public static void main(String[] args) {
   findLargest();
```

MergeArraySort.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
import java.util.Collections;
/**
* Program Name: MergeArraySort
* Description:
* Author
         : Keshav Abhishek
* Created On: 21-02-2025
* Organization: C.V. Raman Global University
* ______
* Copyright (c) 2025, All rights reserved.
* ______
*/
public class MergeArraySort {
  public static void mergeTwoArrays(){
    ArrayList <Integer> data1 = new ArrayList<>();
    ArrayList <Integer> data2 = new ArrayList<>();
    data1.add(100);
    data1.add(102);
    data1.add(103);
    data1.add(104);
    data2.add(100);
    data2.add(103);
    data2.add(105);
    data2.add(106);
    data1.addAll(data2);
    Collections.sort(data1);
    System.out.println(data1);
  public static void main(String[] args) {
    mergeTwoArrays();
  }
}
```

ReverseArrayList.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
/**
* Program Name: ReverseArrayList
* Description:
          : Keshav Abhishek
* Author
* Created On: 21-02-2025
* Organization: C.V. Raman Global University
* _____
* Copyright (c) 2025, All rights reserved.
* ______
*/
public class ReverseArrayList {
  public static void reverseOrder(){
    ArrayList <Integer> data1 = new ArrayList<>();
    data1.add(100);
    data1.add(102);
    data1.add(103);
    data1.add(104);
    System.out.println("Forward Order: " + data1);
    int size = data1.size();
    for(int i = 0; i < size/2; i++){
      int temp = data1.get(i);
      data1.set(i, data1.get(size-i-1));
      data1.set(size - i - 1, temp);
    }
    System.out.println("Reverse Order: " + data1);
  }
  public static void main(String[] args) {
    reverseOrder();
  }
}
```

SecondLargest.java

```
package LAB_Problem.Problem11;
import java.util.ArrayList;
import java.util.Collections;
import java.util.HashSet;
import java.util.Scanner;
/**
* Program Name: SecondLargest
* Description:
           : Keshav Abhishek
* Author
* Created On: 21-02-2025
* Organization: C.V. Raman Global University
  _____
* Copyright (c) 2025, All rights reserved.
* ______
*/
public class SecondLargest {
  public static void find2ndLargest(){
    ArrayList <Integer> data = new ArrayList<>();
    Scanner sc = new Scanner(System.in);
    System.out.println("Number of elements: ");
    int times = sc.nextInt();
    for (int i = 0; i < times; i++) {
      System.out.print("Enter value: ");
      data.add(sc.nextInt());
    }
    HashSet <Integer> dataFilter = new HashSet<>(data);
    data = new ArrayList<>(dataFilter);
    sc.close();
    Collections.sort(data, Collections.reverseOrder());
    System.out.println("Second largest element: " + data.get(1));
  public static void main(String[] args) {
    find2ndLargest();
}
```