package Collections.Iterator;  
  
import java.util.ArrayList;  
import java.util.List;  
import java.util.ListIterator;  
  
public class ListIteratorTest {  
 public static void main(String[] args) {  
 List<Integer> list2 = new ArrayList<>();  
 list2.add(1);  
 list2.add(3);  
 list2.add(4);  
 list2.add(8);  
 list2.add(5);  
 list2.add(90);  
 list2.remove(3);  
 System.*out*.println(list2);  
 System.*out*.println("List Interface list2 " + list2);  
 //Iterating using ListIterator  
 ListIterator<Integer> integerListIterator = list2.listIterator();  
 System.*out*.print("List Iterated values");  
 while (integerListIterator.hasNext()) {  
 if (integerListIterator.next() == 4) {  
 System.*out*.println("Forward Iteration");  
 System.*out*.println("next index= " + integerListIterator.nextIndex() + "Previous index= " + integerListIterator.previousIndex());  
 integerListIterator.remove();  
 }  
 }  
 while (integerListIterator.hasPrevious()) {  
 if (integerListIterator.previous() == 5) {  
 System.*out*.println("Backward Iteration");  
 System.*out*.println("next index= " + integerListIterator.nextIndex() + "Previous index= " + integerListIterator.previousIndex());  
 integerListIterator.set(9);  
 integerListIterator.add(7);  
 }  
 }  
 System.*out*.println("List Interface after Iteration " + list2);  
  
 }  
}

C:\Users\Roystan\.jdks\openjdk-21.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\lib\idea\_rt.jar=59201:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2023.3.3\bin" -Dfile.encoding=UTF-8 -Dsun.stdout.encoding=UTF-8 -Dsun.stderr.encoding=UTF-8 -classpath C:\Users\Roystan\IdeaProjects\JavaWorkspace\out\production\JavaWorkspace Collections.Iterator.ListIteratorTest

[1, 3, 4, 5, 90]

List Interface list2 [1, 3, 4, 5, 90]

List Iterated valuesForward Iteration

next index= 3Previous index= 2

Backward Iteration

next index= 2Previous index= 1

List Interface after Iteration [1, 3, 7, 9, 90]

Process finished with exit code 0