**4.2 Aim: Write a Java program to create List containing list of items and use List Iterator interface to print items present in the list.**

**Code-**

**package** Interface\_program;

**import** java.util.\*;

**public** **class** List\_iterator {

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

List<Integer> list = **new** ArrayList<>();

**for**(**int** i=0; i<5; i++)

list.add(i);

Iterator<Integer> iterator = list.iterator();

//simple iteration

**while**(iterator.hasNext())

{

**int** i = (**int**) iterator.next();

System.***out***.print(i + ", ");

}

System.***out***.println("\n" +list);

//modification of list using iterator

iterator = list.iterator();

**while**(iterator.hasNext())

{

**int** x = (**int**) iterator.next();

**if**(x%2 ==0)

iterator.remove();

}

System.***out***.println(list);

//changing list structure while iterating

iterator = list.iterator();

}

}