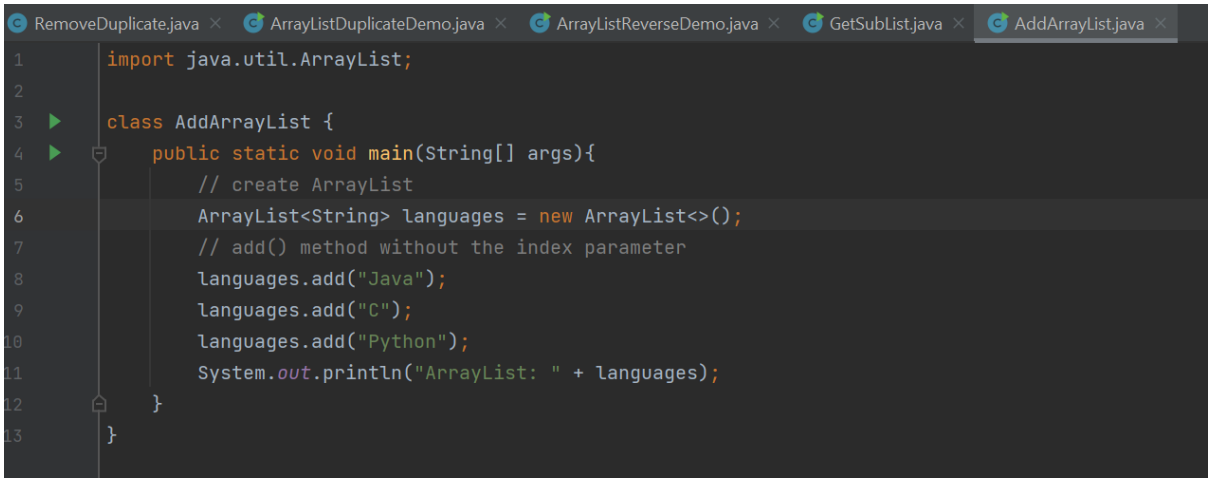
Array List-Coding Questions

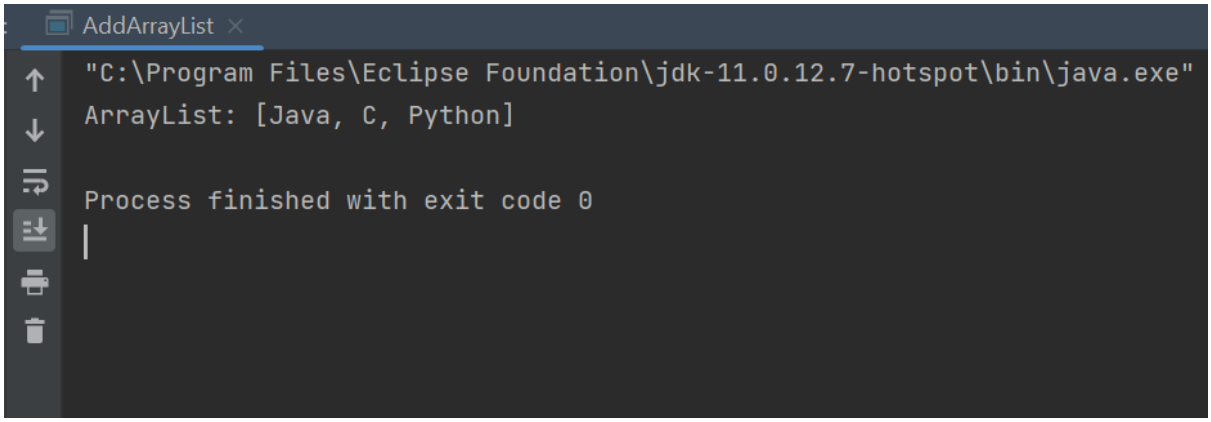
Task 3: Code snippets

Q.1) Java Program to add elements to ArrayList.

Program:

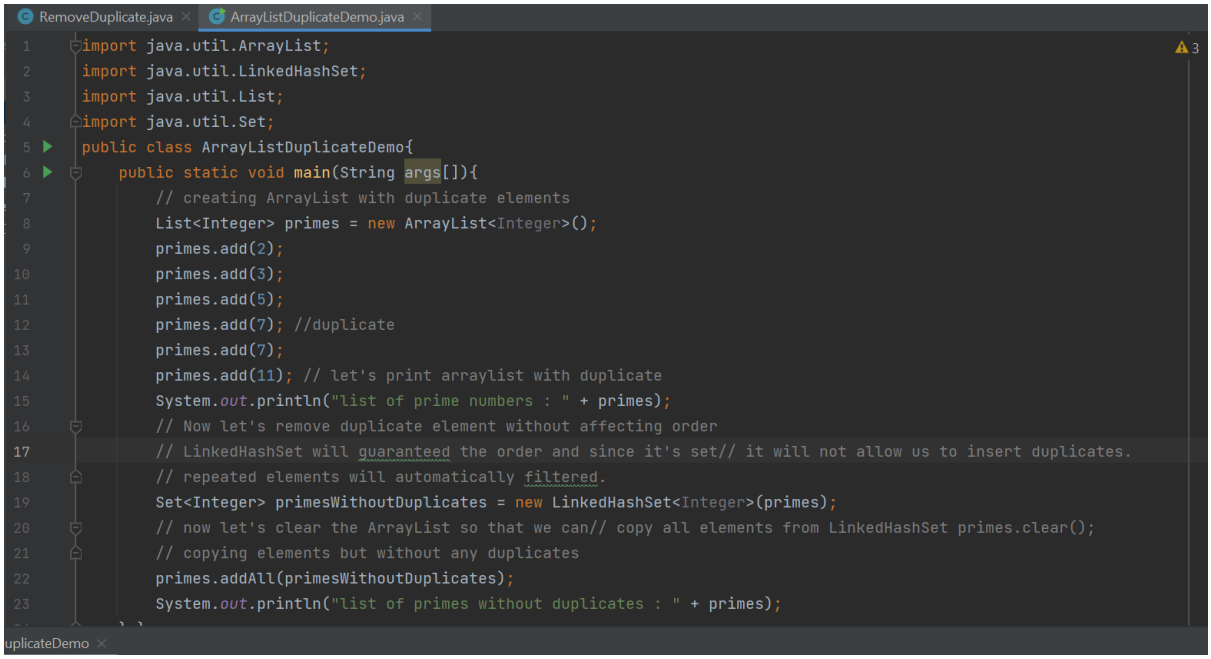


Output:



Q.2) Java Program to Remove duplicates from ArrayList.

Program:



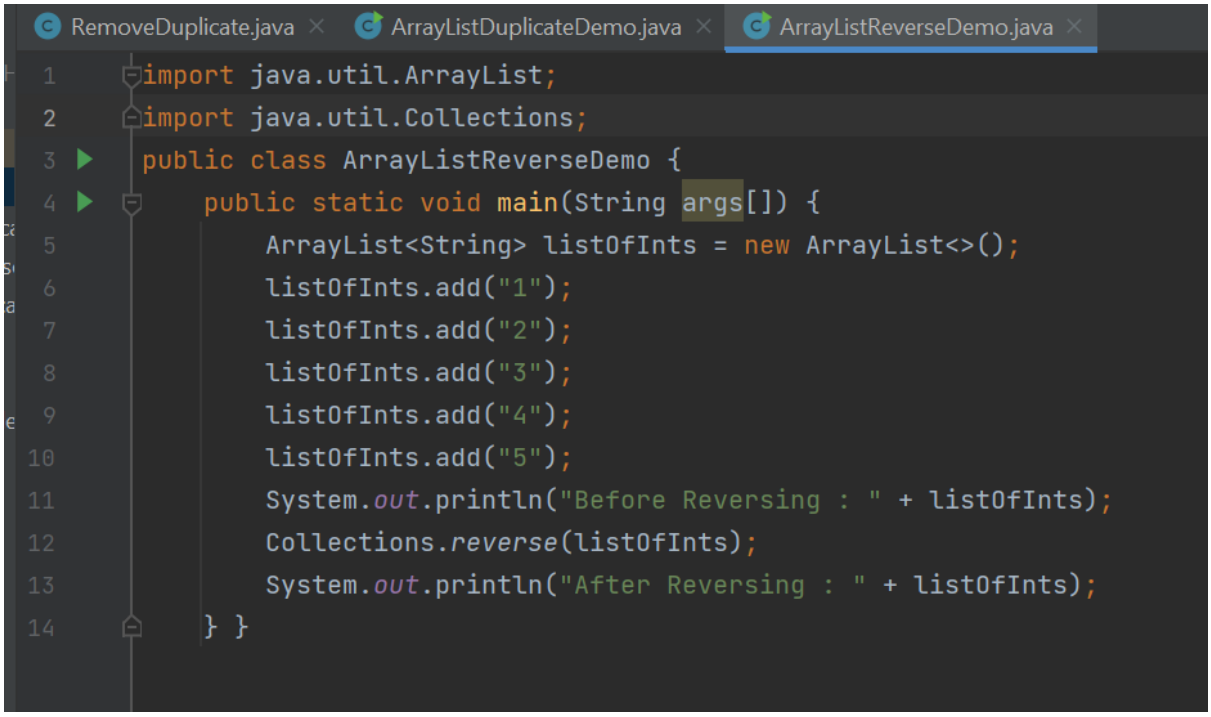
```java
import java.util.ArrayList;
import java.util.LinkedHashSet;
import java.util.List;
import java.util.Set;
public class ArrayListDuplicateDemo{
    public static void main(String args[]){
        // creating ArrayList with duplicate elements
        List<Integer> primes = new ArrayList<Integer>();
        primes.add(2);
        primes.add(3);
        primes.add(5);
        primes.add(7); //duplicate
        primes.add(7);
        primes.add(11); // let's print arraylist with duplicate
        System.out.println("list of prime numbers : " + primes);
        // Now let's remove duplicate element without affecting order
        // LinkedHashSet will guaranteed the order and since it's set// it will not allow us to insert duplicates.
        // repeated elements will automatically filtered.
        Set<Integer> primesWithoutDuplicates = new LinkedHashSet<Integer>(primes);
        // now let's clear the ArrayList so that we can// copy all elements from LinkedHashSet primes.clear();
        // copying elements but without any duplicates
        primes.addAll(primesWithoutDuplicates);
        System.out.println("list of primes without duplicates : " + primes);
```

Output:

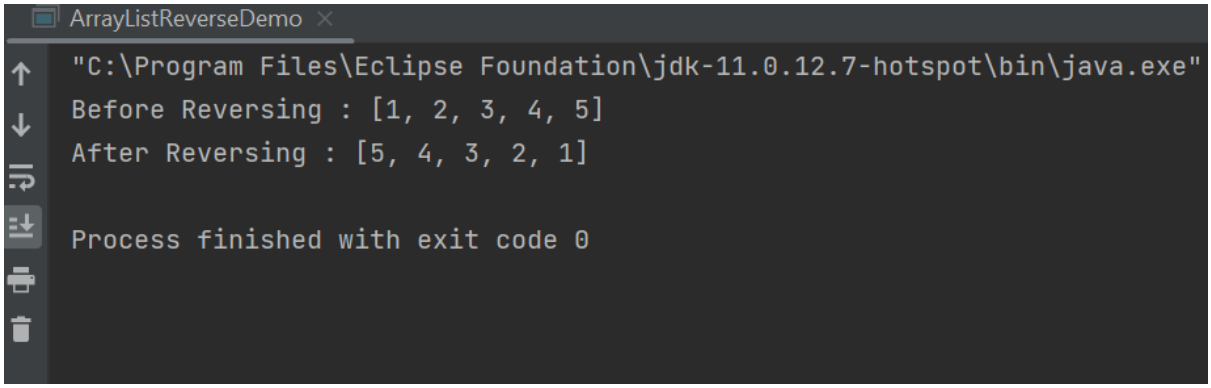
```
"C:\Program Files\Eclipse Foundation\jdk-11.0.12.7-hotspot\bin\java.exe" "-javaagent:C:\Program Files (x86)\JetBrains\IntelliJ IDEA Community Edit
list of prime numbers : [2, 3, 5, 7, 7, 11]
list of primes without duplicates : [2, 3, 5, 7, 7, 11, 2, 3, 5, 7, 11]

Process finished with exit code 0
```

Q.3) Java Program to reverse ArrayList.

Program:



Output:



Q4) Java Program to change elements of an ArrayList

Program:

Output:

Q5)Java Program to remove an element from ArrayList.

Program:

Output: