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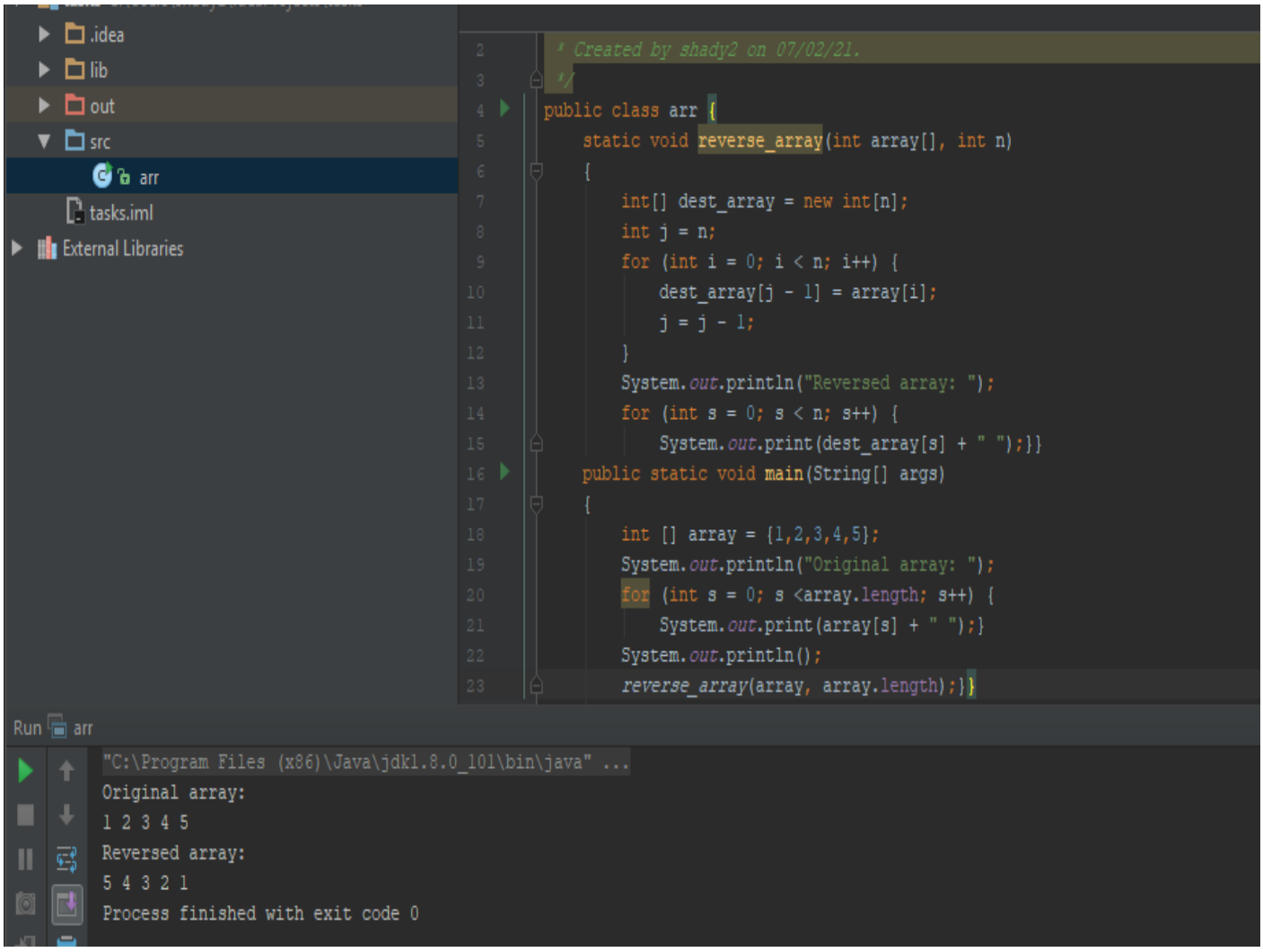
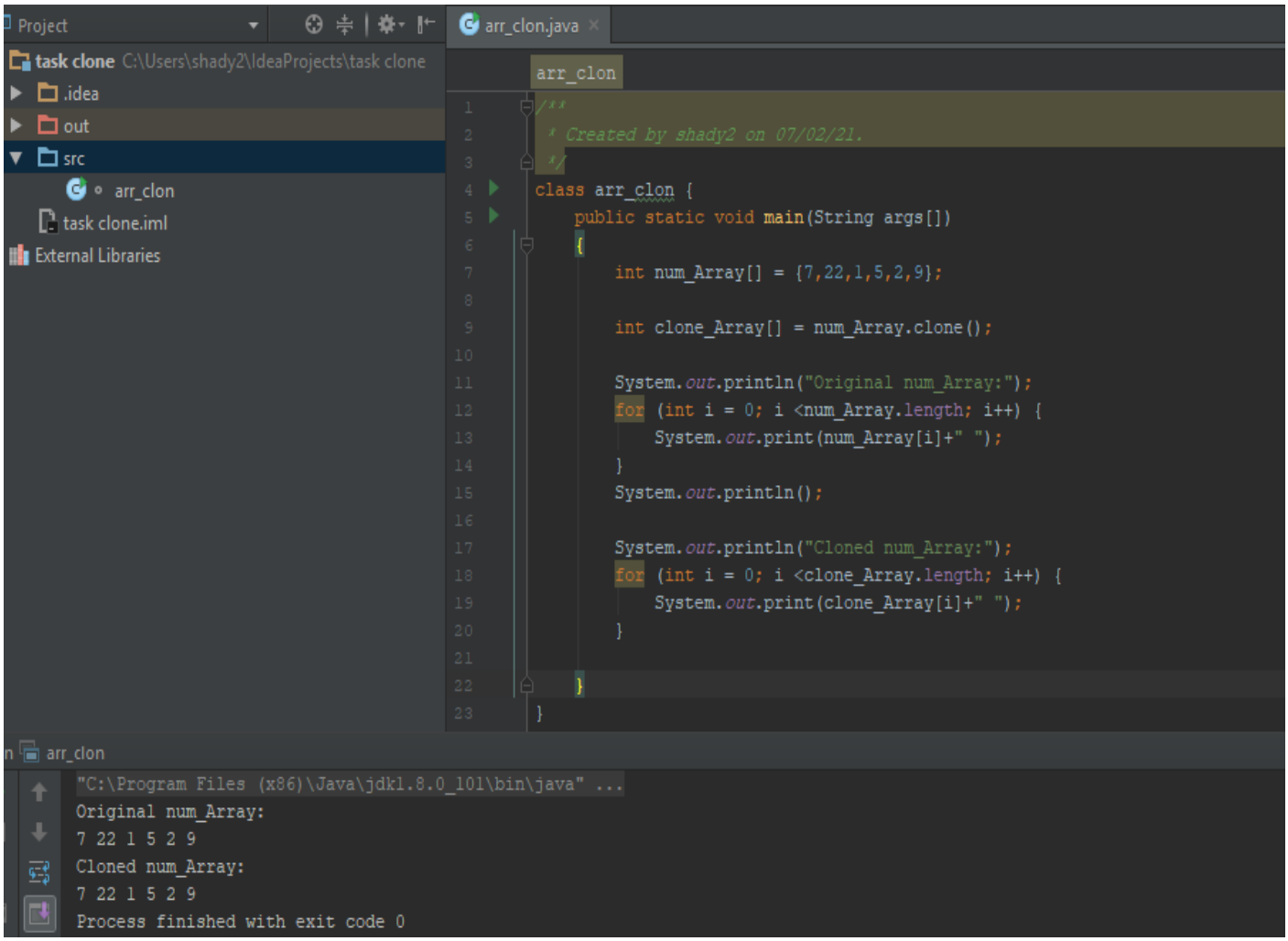
Name ((SHADI ADNAN TAHA AL MAQTARY)) .

LAP 2

1 – reverse array .



2- Clone array .



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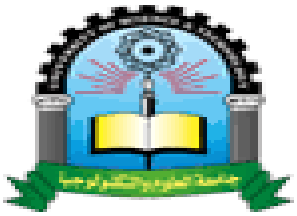
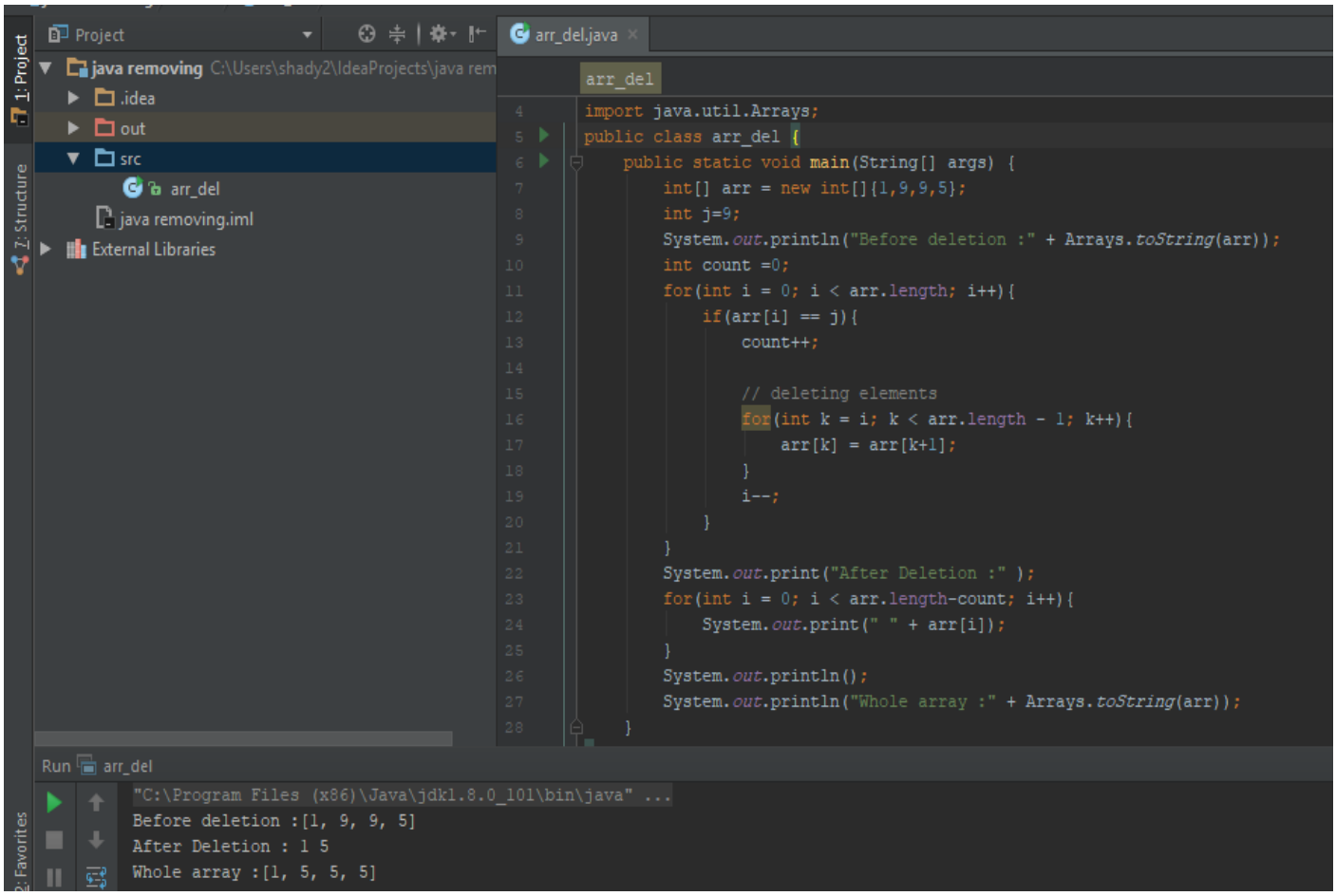


3- remove array elements .



4-repeeadeatedly selects an removes a random .

arr_rand.java

```java
/*
 * Created by shady2 on 08/02/21.
 */
import java.util.Arrays;
import java.util.List;
import java.util.Random;
import java.util.stream.Collectors;
public class arr_rand {
    public static void main(String[]args){
        int[] array = { 1, 2, 3, 4, 5, 6, 7, 8, 9, 0 };
        removeElements(array);}
    public static void removeElements (int[] arr) {
        Random random = new Random();
        List<Integer> list = Arrays.stream(arr).boxed().collect(Collectors.toList());
        int length = arr.length;
        while (length > 0) {

            System.out.println("Size: " + list.size());
            if (list.size() == 1) {
                int randomIndex = random.nextInt(list.size());
                list.remove(randomIndex);
                System.out.println("Size:--> " + list.size());
                break;
            }else {
                int randomIndex = random.nextInt(list.size() - 1);
                if (arr == null || randomIndex > arr.length) {
                    System.out.println("No Elements to be deleted");
                }
                list.remove(randomIndex);
                System.out.println("Removed Element: " + list.get(randomIndex));
                length--;
                if (length == 0)
                    break;
```

Project

untitled7 C:\Users\shady2\IdeaProjects\untitled7
- .idea
- out
- src
  - arr_rand
  - untitled7.iml
- External Libraries

Run arr_rand

```
"C:\Program Files (x86)\Java\jdk1.8.0_101\bin\java" ...
Size: 10
Removed Element: 3
Size: 9
Removed Element: 9
Size: 8
Removed Element: 0
Size: 7
Removed Element: 3
Size: 6
Removed Element: 7
Size: 5
Removed Element: 4
Size: 4
Removed Element: 7
Size: 3
Removed Element: 0
Size: 2
Removed Element: 0
Size: 1
Size:--> 0

Process finished with exit code 0
```