Lab 9

Create a new Eclipse project named YourStudentId_Lab9 and add two classes named Tester9 to the project.
ArrayList is a class of Java API. Remember to import the package from Java (java.util.ArrayList).

Modifier and Type	Method and Description
boolean	add(E e) Appends the specified element to the end of this list.
E	remove(int index) Removes the element at the specified position in this list.
boolean	remove(Object o) Removes the first occurrence of the specified element from this list, if it is present.
boolean	contains(Object o) Returns true if this list contains the specified element.
boolean	isEmpty() Returns true if this list contains no elements.
int	indexOf(Object o) Returns the index of the first occurrence of the specified element in this list, or -1 if this list does not contain the element.
int	size() Returns the number of elements in this list.
E	get(int index) Returns the element at the specified position in this list.

1. Create an ArrayList named "nameList" which can store String values.

2. Add 5 name ("Daisy", "Jasmine", "Elsa", "Ryan", "Nick") into the array list in order, try to print nameList and show the output in the console.

3. Use remove() to remove "Nick" from nameList.

4. Use if-else and **contains()** to show whether nameList contains "Ryan" in console. If contains, print "Ryan is in nameList.". Otherwise, print "Ryan is not in nameList.".

```
if(…){
        System.out.println("Ryan is in nameList.");
}else{
        System.out.println("Ryan is not in nameList.");
}
```

5. Use if-else and **isEmpty()** to show whether nameList is empty. If empty, print "nameList is empty.". Otherwise, print "nameList is not an empty list.".

6. Use indexOf() to find out the index of "Elsa", and print the result in console.

```
Elsa is at position: 2
```

7. Use size() to get the current length of nameList, and print the result in console.

```
The length of nameList is 4.
```

8. Use get() to find out the value of nameList which index is 1, and print the result in console.

```
The position 1 of nameList is Jasmine.
```

Submission: Submit your project as "zip (or rar) file" via WM5. No other submissions will be graded.

Reminder: Please zip the whole project

Deadline: Tomorrow's midnight (for both Mon56 and Tue23)