## **Assignment 2**

Java Mastery Intermediate Methods, Collections, and Beyond

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## **Problem statement:**

Develop a Java program that demonstrates the usage of ArrayList to store and manipulate a list of student names.

## Code:

```
import java.util.ArrayList;
public class Students {
   public static void main(String[] args) {
        ArrayList<String> studentList = new ArrayList<>();
        studentList.add("Ramie");
        studentList.add("Ayesha");
       studentList.add("Palak");
        studentList.add("Mani");
        studentList.add("Vinit");
        System.out.println("List of Student Names:");
        for (String student : studentList) {
            System.out.println(student);
        studentList.add("Anshi");
        System.out.println("\nUpdated List of Student Names:");
        for (String student : studentList) {
            System.out.println(student);
        studentList.remove( o: "Mani");
        System.out.println("\nUpdated List of Student Names after removal:");
        for (String student : studentList) {
            System.out.println(student);
```

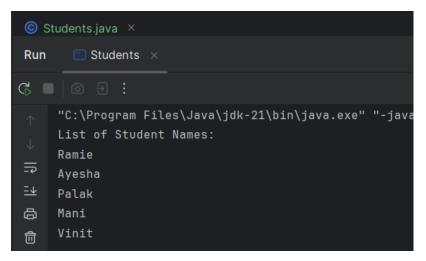
```
int size = studentList.size();
System.out.println("\nTotal number of students: " + size);

String searchStudent = "Vinit";
if (studentList.contains(searchStudent)) {
    System.out.println("\n" + searchStudent + " is present in the list.");
} else {
    System.out.println("\n" + searchStudent + " is not present in the list.");
}

studentList.clear();

System.out.println("\nList after clearing:");
if (studentList.isEmpty()) {
    System.out.println("The list is empty.");
} else {
    for (String student : studentList) {
        System.out.println(student);
}
}
}
```

## **Output:**



```
Updated List of Student Names after removal:
Ramie
Ayesha
Palak
Vinit
Anshi
Total number of students: 5
```