

Main.java

```
2 * Cynthia C.
6 package arrayList;
7
8 import java.util.Scanner;
10
11 public class Main {
12
13     public static void main(String[] args) {
14         Scanner input = new Scanner(System.in);
15         ArrayList<String> classList = new ArrayList<String>();
16         int userChoice, times = 0;
17         String remove;
18
19         //will loop until the user chooses to exit(4)
20         do {
21             System.out.println("\nChoose from the following menu options: ");
22             System.out.println("1.add student\n2.remove student\n3.display student list\n4.exit");
23             System.out.print("\nWhat is your choice? ");
24             userChoice = input.nextInt();
25
26             //will ask for which action the user would like
27             while(userChoice < 1 || userChoice > 4) {
28                 System.out.print("\nPlease enter an applicable value: ");
29                 userChoice = input.nextInt();
30             }
31
32             //will initiate the action the user wanted
33             if(userChoice == 1) {
34                 classList.add(addName());
35             }else if(userChoice == 2) {
36                 //will loop until the name chosen to remove exists on the list
37                 do{
38                     remove = removeName(times);
39                     times++;
40                 }while(!classList.contains(remove));
41                 classList.remove(remove);
42
43             }else if(userChoice == 3) {
44                 System.out.println("These are the students in the class: ");
45
46                 //will loop until all the names on the list are printed out
47                 for(String str:classList) {
48                     System.out.println(str);
49                 }
50             }else {
51                 System.out.println("\nHave a good day!");
52             }
53         }while(userChoice != 4);
54     }
55 }
56
57 /**
58  * will ask for input for adding a student's name
59  * will return the name
60  * @return
61  */
```

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```
62  public static String addName() {
63      Scanner input = new Scanner(System.in);
64      String name;
65      System.out.print("What is the students' name? ");
66      name = input.nextLine();
67
68      return name;
69  }
70
71  /**
72   * will ask for input for removing a student's name
73   * will return the name
74   * @return
75   */
76  public static String removeName(int times) {
77      Scanner input = new Scanner(System.in);
78      String name;
79
80      if(times == 0) {
81          System.out.print("Which student would you like to remove? ");
82      }else {
83          System.out.println("That name does not exist on the class list\nPlease enter a
relavent name: ");
84      }
85      name = input.nextLine();
86
87      return name;
88  }
89
90
91 }
92
```