

Assignment-9

CHECK WHETHER GIVEN LIST OF STRINGS CONTAINS ONLY ALPHABETS OR NOT:

CODE:

```
1 package Assignment9;
2 import java.util.ArrayList;
3 import java.util.List;
4 import java.util.Scanner;
5 import java.util.function.Predicate;
6 public class AlphabeticChecker {
7     public String checkAlphabets(List<String> stringList) { 1 usage
8         if (stringList.isEmpty()) {
9             return "Give proper input not empty list";
10        }
11        Predicate<String> isAlphabetString = str -> str.matches(regex: "[a-zA-Z]+");
12        boolean containsNonAlphabetStrings = stringList.stream()
13            .anyMatch(str -> isAlphabetString.test(str));
14        if (containsNonAlphabetStrings) {
15            return "Given list contains alphabet strings";
16        } else {
17            return "Given list contains non alphabet strings";
18        }
19    }
```

```
20 public static void main(String[] args) {
21     Scanner scanner = new Scanner(System.in);
22     AlphabeticChecker checker = new AlphabeticChecker();
23
24     System.out.print("Enter the number of strings: ");
25     int count = scanner.nextInt();
26     scanner.nextLine(); // Consume the newline character
27
28     if (count <= 0) {
29         System.out.println("Invalid input. Please provide a positive number.");
30         return;
31     }
32
33     System.out.println("Enter the strings:");
34     List<String> stringList = new ArrayList<>();
35     for (int i = 0; i < count; i++) {
36         String input = scanner.nextLine();
37         stringList.add(input);
38     }
39     System.out.println(stringList);
40     System.out.println(checker.checkAlphabets(stringList));
41
42     scanner.close();
43 }
44 }
45
46
```

Output1:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=60279:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\b
Enter the number of strings: 2
Enter the strings:
sai
Bittu
[sai, Bittu]
Given list contains  alphabet strings

Process finished with exit code 0
```

Output2:

```
"C:\Program Files\Java\jdk-20\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\lib\idea_rt.jar=60294:C:\Program Files\JetBrains\IntelliJ IDEA 2024.1\b
Enter the number of strings: 2
Enter the strings:
mon@@
dad##
[mon@@, dad##]
Given list contains non  alphabet strings

Process finished with exit code 0
```