JAVA - J2EE Batch 2

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Assignment-9

2 PROBLEM STATEMENT - CHECK WHETHER GIVEN LIST OF STRINGS CONTAINS ONLY ALPHABETS OR NOT

Given a list of strings, check whether each string in list contains only alphabets or not using lambda expressions

This exercise contains a class named AlphabetChecker with the following method:

```
+checkAlphabets(List<String>) : String
 -Should accept list of strings as input
 -Should return "Give proper input not empty list" if given list is empty
 -Should check whether given list of strings contains all alphabets as
charcters or not using lambda expressions
 -Should return "Given list contains only alphabet strings" if list
contains only alphabet strings
 -Should return "Given list contains non alphabet strings" if list contains
non alphabet strings
```

Example:

```
Sample Input:
[Java,code]
Expected Output:
Given list contains only alphabet strings
```

```
Sample Input:
[Java!!,Code**]
Expected Output:
Given list contains non alphabet strings
```

→

AlphabetChecker.java

```java
package com.Day7;

import java.util.List;
import java.util.Scanner;
import java.util.function.Predicate;

public class AlphabetChecker {
    public String checkAlphabets(List<String> strings) {
        if (strings.isEmpty()) {
            return "Give Proper input";
        }
        Predicate<String> isAlphabetic = str -> str.chars().allMatch(Character::isLetter);
        if (strings.stream().allMatch(isAlphabetic)) {
            return "Given list contains only alphabet strings";
        } else {
            return "Given list contains non alphabet strings";
        }
    }

    public static void main(String[] args) {
        AlphabetChecker checker = new AlphabetChecker();
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter strings: ");
        String input = sc.next();
        if (input.isEmpty()) {
            System.out.println("Give proper input not empty list");
        } else {
            List<String> strings = List.of(input.split("\\s+"));
            System.out.println(checker.checkAlphabets(strings));
        }
        sc.close();
    }
}
```

Console

```
<terminated> AlphabetChecker [Java Application] D:\my\eclipse-jee-2024-03-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.
Enter strings:
java code
Given list contains only alphabet strings
```

AlphabetChecker.java

```java
package com.Day7;

import java.util.List;
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public class AlphabetChecker {
    public String checkAlphabets(List<String> strings) {
        if (strings.isEmpty()) {
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        Predicate<String> isAlphabetic = str -> str.chars().allMatch(Character::isLetter);
        if (strings.stream().allMatch(isAlphabetic)) {
            return "Given list contains only alphabet strings";
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    public static void main(String[] args) {
        AlphabetChecker checker = new AlphabetChecker();
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter strings: ");
        String input = sc.next();
        if (input.isEmpty()) {
            System.out.println("Give proper input not empty list");
        } else {
            List<String> strings = List.of(input.split("\\s+"));
            System.out.println(checker.checkAlphabets(strings));
        }
        sc.close();
    }
}
```

Console

```
<terminated> AlphabetChecker [Java Application] D:\my\eclipse-jee-2024-03-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full
Enter strings:
java!! code**
Given list contains non alphabet strings
```