IMPORTANT JAVA INTERVIEW QUESTIONS

1. Character Occurrence Counter

☐ Input: "Lollypop"

☐ Output: L-3, O-2, P-2, y-1

✓ Write a program to count and print the frequency of each character.

2. ASCII Character Shift

☐ Input: "A1C2F3"

☐ Output: "ABCEFI"

For every character followed by a digit, add the digit to the ASCII of the character and append the result.

1. Character Replacer

☐ Input: "Banana", Replace 'a' with 'c'

☐ Output: "Bcncnc"

Replace all instances of a character with another.

```
package String;

public class CharacterReplacement {

   public static void main(String[] args) {

        String input="Banana";
        char character='a';
        char replacingChar='c';
        replaceChar(input, character, replacingChar);

}

public static void replaceChar(String input, char character, char replaceChar) {
        String result=input.replace(character, replaceChar);
        System.out.println("After replacement: "+result);
   }
}
```

2. Remove Duplicates (Keep Order)

☐ Input: "My Name is Vikash"

☐ Output: "My Naeiskvh"

☐ Maintain the original order and remove repeating characters.

```
package String;
import java.util.HashSet;
import java.util.Set;

public class RemoveDuplicates {
    Run|Debug|Run main|Debug main
    public static void main(String[] args) {
        removeDuplicateChar(input:"My Name is Vikash");
    }
    public static void removeDuplicateChar(String input) {
        StringBuilder result =new StringBuilder();
        Set<Character> seen= new HashSet<>();
        for(int i=0; i<input.length(); i++) {
            char currentChar=input.charAt(i);
            if(!seen.contains(currentChar)) {
                seen.add(currentChar);
                result.append(currentChar);
            }
        }
        System.out.println("After removing duplicates: "+result.toString());
    }
}</pre>
```

3. Anagram Checker

☐ Input: "Vikash" vs "Hivkas"

☐ Output: true

 \mathbb{Q}_{c} Check if two strings are anagrams — same letters, same frequency, different order.

```
package String;
import java.util.Arrays;
public class CheckAnagram {
    public static void main(String[] args) {
        checkAnagram(input1:"Vikash", input2:"Hivkas");
    public static void checkAnagram(String input1, String input2) {
        input1 = input1.toLowerCase();
        input2 = input2.toLowerCase();
        if (input1.length() != input2.length()) {
            System.out.println(x:"Not an anagram");
            return;
        char[] arr1 = input1.toCharArray();
        char[] arr2 = input2.toCharArray();
        Arrays.sort(arr1);
        Arrays.sort(arr2);
        if (Arrays.equals(arr1, arr2)) {
            System.out.println(x:"Given strings are anagrams");
        } else {
            System.out.println(x:"Not an anagram");
```