String Manipulation Programs

1. Counting Characters

Write a program to count the number of occurrences of the character 'e' or 'E' in the given string:

Input: `s = "javaEEdeve"`

Expected Output: `e/E count: 3`

2. Finding Vowels

Write a program to find lowercase vowels from the given string and display both the vowels and their count.

Input: `s = "javadev"`

Expected Output:

- Vowels: `a, a, e`
- Count: `3`

3. Reversing a String

Write a program to reverse a string.

Input: `s = "javadev"`

Expected Output: `vedavaj`

4. Checking for Palindrome

Write a program to check whether a given string is a palindrome.

Input:

a. `"madam"`

b. `"Mom"`

Expected Output:

- `"madam"` is a palindrome.
- `"Mom"` is a palindrome.

5. Counting Words in a String

Write a program to count the number of words in a string.

Input: `s = "I am a java developer"`

Expected Output: `5`

6. Printing Unique Characters

Write a program to print all unique characters in a string.

Input: `s = "javajavajavadevdevdev"`

Expected Output: `javde`

7. Replacing Characters in a String

Write a program to replace all occurrences of 'e' with 'a' in the given string.
 Input: `s = "java development"`
 Expected Output: `"java davalopmant"`

8. Replacing Substrings

Write a program to replace `"java"` with `"core java"` in the given string.
 Input: `s = "java development"`
 Expected Output: `"core java development"`

9. Removing Spaces

Write a program to remove all spaces from a given string.
 Input: `s = "java development"`
 Expected Output: `"javadevelopment"`

10. Removing Capital Letters

Write a program to remove all uppercase letters from a string.
 Input: `s = "jAvA DeVeloPer"`
 Expected Output: `"jveloer"`

11. Removing Small Letters

Write a program to remove all lowercase letters from a string.
 Input: `s = "jAvA DeVeloPer"`
 Expected Output: `"ADA DVP"`

12. Removing Digits

Write a program to remove all digits from a string.
 Input: `s = "ja123vaDEveloper"`
 Expected Output: `"javaDEveloper"`

13. Removing Vowels

Write a program to remove all vowels from a string.
 Input: `s = "ja123vaDEveloper"`
 Expected Output: `"j123vDvlpr"`

14. Counting Substring Frequency

Write a program to count the frequency of a given substring in a string.
 Input:

```
String str1 = "we work to live and live to be happy live";
```

```
String word1 = "live";
```

Expected Output: 3

15. Finding the Longest Word

Write a program to find the longest word in a string.
Input: s = "I am a java developer"
Expected Output: "developer"

16. Counting Character Frequency

Write a program to count the frequency of each character in a given string.
Input: s = "javadev"
Expected Output:

```
A - 2
D - 1
E - 1
J - 1
V - 2
```

17. Reversing Words in a Sentence

Write a program to reverse the order of words in a sentence.
Input: s = "I love Java"
Expected Output: "Java love I"

18. Check the given two strings are angram or not?