24. Write a Java method to count all vowels in a string.
Test Data:
Input the string: Success Computer Centre
Expected Output:

Number of Vowels in the string: 7

```java
public class Exercise24
{
    public static int countVowels(String str)
    {
    // Convert the string to lowercase to simplify vowel checkings
    //    str = str.toLowerCase();

        int count = 0;
        // Loop through each character in the string
        for (int i = 0; i < str.length(); i++)
        {
            // Check if the character is a vowel
            char ch = str.charAt(i);
            if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
            {
                // Increment the count if it's a vowel
                count++;
            }
        }
        return count;
    }

    public static void main(String[] args)
    {
        String str = "Success Computer Center";
        int vowelCount = countVowels(str);
        System.out.println("Number of vowels in the string: " + vowelCount);
    }
}
```