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

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);

}

}