3. Write a Java program to check if a vowel is present in a string. Additionally, the program should count the total number of vowels present and display the count along with whether any vowels are present or not.

import java.util.Scanner;

public class VowelChecker {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a string: ");

String input = scanner.nextLine().toLowerCase();

int vowelCount = 0;

boolean vowelPresent = false;

for (int i = 0; i < input.length(); i++) {

char ch = input.charAt(i);

if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u') {

vowelPresent = true;

vowelCount++;

}

}

if (vowelPresent) {

System.out.println("Vowels are present in the string.");

System.out.println("Total number of vowels: " + vowelCount);

} else {

System.out.println("No vowels are present in the string.");

}

scanner.close();

}

}