

```

63     }
64 }
65
66 0 references
class Program
67 {
68     0 references
    static void Main(string[] args)
69     {
70         // Test fungsi CountWords
71         string sentence = "Hello, nama saya John Doe";
72         int wordCount = WordCounter.CountWords(sentence);
73         Console.WriteLine($"Soal 1 : Jumlah kata: {wordCount}");
74
75         // Test fungsi FindMax
76         int[] numbers = { 1, 5, 3, 7, 2 };
77         int maxNumber = ArrayUtils.FindMax(numbers);
78         Console.WriteLine($"Soal 2 : Angka terbesar: {maxNumber}");
79
80         // Test fungsi SortArray
81         int[] unsortedNumbers = { 3, 1, 5, 2, 4 };
82         int[] sortedNumbers = ArrayUtils.SortArray(unsortedNumbers);
83         Console.WriteLine($"Soal 3 : Array setelah diurutkan: " + string.Join(" ", sortedNumbers));
84
85         // Test fungsi FindMostFrequentChar
86         string word = "hello";
87         char mostFrequentChar = StringUtils.FindMostFrequentChar(word);
88         Console.WriteLine($"Soal 4 : Huruf yang paling sering muncul: {mostFrequentChar}");
89
90         // Tambahkan ini agar konsol tetap terbuka sampai Anda menekan Enter
91         Console.WriteLine("Press Enter to exit...");
92         Console.ReadLine();
93     }
94 }
95
96

```

Soal 1 : Jumlah kata: 5  
 Soal 2 : Angka terbesar: 7  
 Soal 3 : Array setelah diurutkan: 1, 2, 3, 4, 5  
 Soal 4 : Huruf yang paling sering muncul: l  
 Press Enter to exit...

```

using System;
using System.Collections.Generic;
using System.Linq;

namespace MyConsoleApp
{
    public class WordCounter
    {
        public static int CountWords(string sentence)
        {
            if (string.IsNullOrEmpty(sentence))
                return 0;

            string[] words = sentence.Split(new char[] { ' ', '\t', '\n', '\r' },
StringSplitOptions.RemoveEmptyEntries);
            return words.Length;
        }
    }

    public class ArrayUtils
    {
        public static int FindMax(int[] numbers)
        {
            if (numbers == null || numbers.Length == 0)
                throw new ArgumentException("Array tidak boleh kosong");

            int max = numbers[0];
            foreach (int number in numbers)
            {
                if (number > max)
                    max = number;
            }
            return max;
        }

        public static int[] SortArray(int[] numbers)
        {
            if (numbers == null || numbers.Length == 0)
                throw new ArgumentException("Array tidak boleh kosong");

            Array.Sort(numbers);
            return numbers;
        }
    }

    public class StringUtils
    {
        public static char FindMostFrequentChar(string word)
        {
            if (string.IsNullOrEmpty(word))
                throw new ArgumentException("Kata tidak boleh kosong");

            Dictionary<char, int> frequency = new Dictionary<char, int>();

```

```
        foreach (char c in word)
        {
            if (frequency.ContainsKey(c))
                frequency[c]++;
            else
                frequency[c] = 1;
        }

        return frequency.OrderByDescending(x => x.Value).First().Key;
    }
}

class Program
{
    static void Main(string[] args)
    {
        // Test fungsi CountWords
        string sentence = "Halo, nama saya John Doe";
        int wordCount = WordCounter.CountWords(sentence);
        Console.WriteLine($"Soal 1 : Jumlah kata: {wordCount}");

        // Test fungsi FindMax
        int[] numbers = { 1, 5, 3, 7, 2 };
        int maxNumber = ArrayUtils.FindMax(numbers);
        Console.WriteLine($"Soal 2 : Angka terbesar: {maxNumber}");

        // Test fungsi SortArray
        int[] unsortedNumbers = { 3, 1, 5, 2, 4 };
        int[] sortedNumbers = ArrayUtils.SortArray(unsortedNumbers);
        Console.WriteLine("Soal 3 : Array setelah diurutkan: " + string.Join(" ",
sortedNumbers));

        // Test fungsi FindMostFrequentChar
        string word = "hello";
        char mostFrequentChar = StringUtils.FindMostFrequentChar(word);
        Console.WriteLine($"Soal 4 : Huruf yang paling sering muncul: {mostFrequentChar}");

        // Tambahkan ini agar konsol tetap terbuka sampai Anda menekan Enter
        Console.WriteLine("Press Enter to exit...");
        Console.ReadLine();
    }
}
}
```