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SE.45.03

```
CovidConfig.cs Program.cs x
tpmodul8_1302210041
1 // See https://aka.ms/new-console-template for more information
2
3
4 using static tpmodul8_1302210041.CovidConfig;
5
6 readWrite rw = new readWrite();
7 rw.UbahDerajat();
8 //untuk mengubah derajat celsius ke derajat fahrenheit
9
10 Console.WriteLine("Berapa suhu badan anda saat ini? Dalam nilai " + rw.config.satuan_suhu);
11 Console.WriteLine("(celcius 36,5 - 37,5 atau 97.7 - 99,5)");
12 double suhu = Convert.ToDouble(Console.ReadLine());
13 Console.WriteLine("Berapa hari yang lalu (perkiraan) anda terakhir memiliki gejala demam?");
14 int hari = Convert.ToInt32(Console.ReadLine());
15 //meminta masukan
16
17
18 if ((rw.config.satuan_suhu == "celcius" && suhu >= 36.5 && suhu <= 37.5) && hari < rw.config.batas_hari_demam)
19 {
20     Console.WriteLine(rw.config.pesan_diterima);
21 }
22 else if ((rw.config.satuan_suhu == "fahrenheit") && suhu >= 97.7 && suhu <= 99.5 && hari < rw.config.batas_hari_demam)
23 {
24     Console.WriteLine(rw.config.pesan_diterima);
25 }
26 else
27 {
28     Console.WriteLine(rw.config.pesan_ditolak);
29 }
30 //menentukan range suhu untuk celcius dan fahrenheit, bila diluar hal tersebut maka pesan ditolak
```

```
CovidConfig.cs  Program.cs*
[C#] tpmodul8_1302210041
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Text.Json;
6  using System.Threading.Tasks;
7
8  namespace tpmodul8_1302210041
9  {
10     1 reference
        internal class CovidConfig
11     {
12         5 references
        public class set
13         {
14             7 references
            public string satuan_suhu { get; set; }
15             3 references
            public int batas_hari_demam { get; set; }
16             2 references
            public string pesan_ditolak { get; set; }
17             3 references
            public string pesan_diterima { get; set; }
18
19             1 reference
            public set(string satuan_suhu, int batas_hari_demam,
20                string pesan_ditolak, string pesan_diterima)
21             {
22                 this.satuan_suhu = satuan_suhu;
23                 this.batas_hari_demam = batas_hari_demam;
24                 this.pesan_ditolak = pesan_ditolak;
25                 this.pesan_diterima = pesan_diterima;
26             }
27             //setget
28         }
        2 references
    }
```

```
CovidConfig.cs  Program.cs*
tpmodul8_1302210041  tpmodul8_1302210041.Co

29  public class readWrite
30  {
31      public set config;
32      public const string txt = @".\covid_config.json";
33
34      1 reference
35      private void SetDefault()
36      {
37          config = new set(
38              "celcius",
39              14,
40              "Anda tidak diperbolehkan masuk ke dalam gedung ini",
41              "Anda dipersilahkan untuk masuk ke dalam gedung ini"
42          );
43      }
44      //method running config
45
46      3 references
47      private void NewConfigFile()
48      {
49          JsonSerializerOptions dokumen = new JsonSerializerOptions()
50          {
51              WriteIndented = true
52          };
53          string jsonString = JsonSerializer.Serialize(config, dokumen);
54          File.WriteAllText(txt, jsonString);
55      }
56      //membuat filejson baru
57
58      1 reference
59      private set ReadConfigFile()
60      {
61          string readJSON = File.ReadAllText(txt);
62          config = JsonSerializer.Deserialize<set>(readJSON);
63          return config;
64      }
65      //membaca file
```

```
CovidConfig.cs  Program.cs
tpmodul8_1302210041  tpmodul8_1302210041.CovidConfig.readWrite

59     string readJSON = File.ReadAllText(txt);
60     config = JsonSerializer.Deserialize<set>(readJSON);
61     return config;
62 }
63 //membaca file
64
65 1 reference
66 public readWrite()
67 {
68     try
69     {
70         ReadConfigFile();
71     }
72     catch (Exception)
73     {
74         SetDefault();
75         NewConfigFile();
76     }
77 } //try catch, akan mencoba untuk readconfigfile terlebih dahulu bila tidak ada maka akan set default dan membuat yang baru
78
79 1 reference
80 public void ubahDerajat()
81 {
82     if (config.satuan_suhu == "celcius")
83     {
84         config.satuan_suhu = "fahrenheit";
85         NewConfigFile();
86     }
87     else
88     {
89         config.satuan_suhu = "celcius";
90         NewConfigFile();
91     }
92 } //mengubah ubah satuan celcius dan fahrenheit
93
94 }
95
96 }
```

Output

```
C:\N Microsoft Visual Studio Debug Console

Berapa suhu badan anda saat ini? Dalam nilai celcius
(celcius 36,5 - 37,5 atau 97.7 - 99,5)
38
Berapa hari yang lalu (perkiraan) anda terakhir memiliki gejala demam?
2
Anda tidak diperbolehkan masuk ke dalam gedung ini

F:\Tugas\Tugas[T4]\KPL\praktikum\modul8\tp_mod_8_1302210041\tpmodul8_1302210041\tpmodul8_1302210041.exe (process 59660) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->D
le when debugging stops.
Press any key to close this window . . .
```

Microsoft Visual Studio Debug Console

Berapa suhu badan anda saat ini? Dalam nilai fahrenheit
(celcius 36,5 - 37,5 atau 97.7 - 99,5)

99

Berapa hari yang lalu (perkiraan) anda terakhir memiliki gejala demam?

2

Anda dipersilahkan untuk masuk ke dalam gedung ini

F:\Tugas\Tugas[T4]\KPL\praktikum\modul8\tp_mod_8_1302210041\tpmodul8_1302210041.exe (process 53064) exited with code 0.

To automatically close the console when debugging stops, enable Tools->Options->Debug Console->Close when debugging stops.

Press any key to close this window . . .