

Marvel Sanjaya Setiawan

2311104053

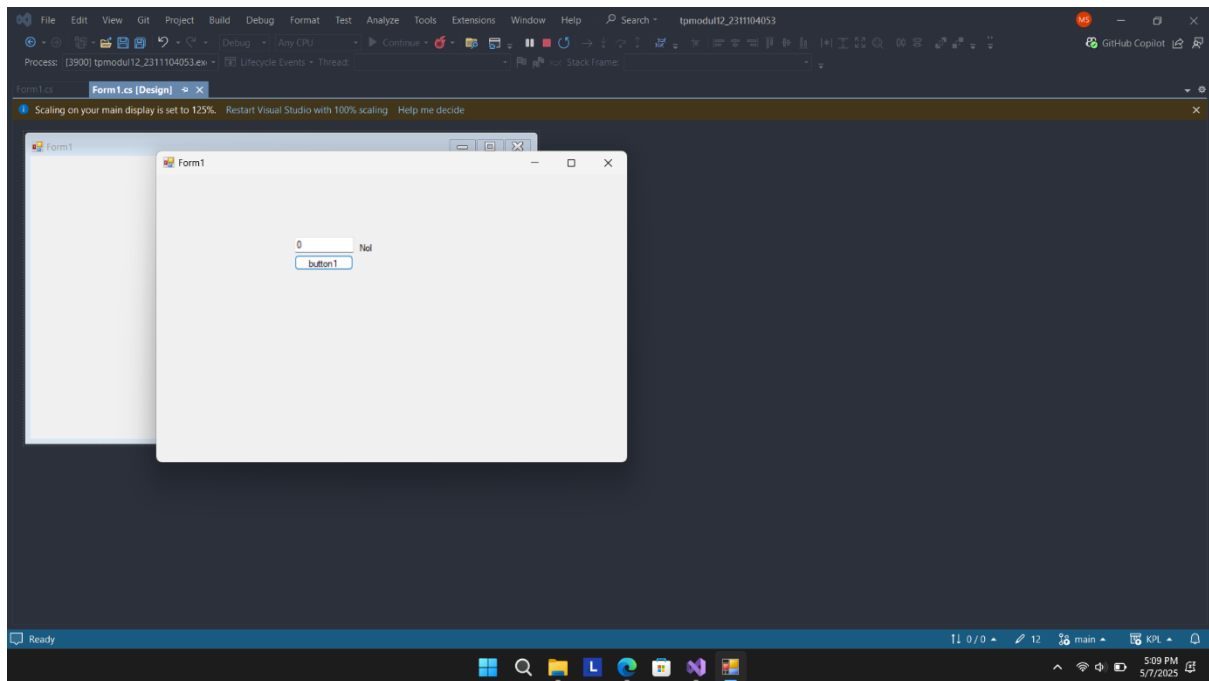
SE07-02

TP MODUL 12

Link github:

https://github.com/Meph1sto14/KPL_Marvel_Sanjaya_Setiawan_2311104053_SE07-02/tree/126f530c3ec281e167003a1c1b415fb777bdc9a6/12_Performance_Analysis_Unit_Testing_dan_Debugging/TP/tpmodul12_2311104053

Hasil run:



Hasil Memory Usage:

Task Manager

Type a name, publisher, or PID to search

Processes

Run new taskEnd taskEfficiency mode

Processes

PerformanceApp historyStartup appsUsersDetailsServices

Name	Status	Process name	4% CPU	72% Memory	1% Disk	0% Network
> Oracle RDBMS Kernel Executa...		oracle.exe	0%	1,854.0 MB	0.1 MB/s	0 Mbps
> Microsoft Edge (20)			0.8%	1,233.0 MB	0.1 MB/s	0 Mbps
> Microsoft Visual Studio 2022		devenv.exe	0.2%	451.7 MB	0.1 MB/s	0 Mbps
> Kaspersky Lab launcher (32 bit...			0%	151.7 MB	0.3 MB/s	0 Mbps
> Windows Explorer		explorer.exe	0%	141.6 MB	0 MB/s	0 Mbps
> WebView2 Manager (6)			1.6%	129.8 MB	0.1 MB/s	0 Mbps
> Desktop Window Manager		dwm.exe				
> Microsoft Word		WINWORD.EXE				
> WebView2 Manager (6)						
> ServiceHub.RoslynCodeAnalys...		ServiceHub.RoslynCodeA...				
> ServiceHub.IdentityHost.exe		ServiceHub.IdentityHost...				
> Microsoft (R) Visual Studio Sta...		StandardCollector.Service...				
> NVIDIA Container (3)						
> NVIDIA Container (2)						
> Task Manager		Taskmgr.exe				
> Secure System		ntoskml.exe				
> Start (2)						
> ServiceHub.ThreadedWaitDial...		ServiceHub.ThreadedWait...				
> Microsoft Office Click-to-Run L...		OfficeClickToRun.exe				
> PerfWatson2.exe		PerfWatson2.exe				
> LenovoVantageService	Efficiency ...	LenovoVantageService.exe	0%	35.4 MB	0 MB/s	0 Mbps
> ServiceHub.VSDetouredHost.e...		ServiceHub.VSDetouredH...	0%	35.4 MB	0 MB/s	0.1 Mbps
> VBCSCompiler		VBCSCompiler.exe	0%	35.3 MB	0 MB/s	0 Mbps
> ServiceHub.Host.dotnetx64		ServiceHub.Host.dotnetx...	0%	35.1 MB	0 MB/s	0.1 Mbps

Form1

label1

button1

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Task Manager

Type a name, publisher, or PID to search

Processes

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PerformanceApp historyStartup appsUsersDetailsServices

Name	Status	Process name	4% CPU	72% Memory	0% Disk	0% Network
> Oracle RDBMS Kernel Executa...		oracle.exe	0%	1,854.0 MB	0.1 MB/s	0 Mbps
> Microsoft Edge (20)			0.9%	1,234.5 MB	0.2 MB/s	0.1 Mbps
> Microsoft Visual Studio 2022		devenv.exe	1.2%	472.2 MB	0.1 MB/s	0.1 Mbps
> Kaspersky Lab launcher (32 bit...			0%	151.7 MB	0.1 MB/s	0 Mbps
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> WebView2 Manager (6)			0.9%	129.7 MB	0.1 MB/s	0 Mbps
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> ServiceHub.RoslynCodeAnalys...		ServiceHub.RoslynCodeA...				
> ServiceHub.IdentityHost.exe		ServiceHub.IdentityHost...				
> Microsoft (R) Visual Studio Sta...		StandardCollector.Service...				
> NVIDIA Container (3)						
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> Task Manager		Taskmgr.exe				
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> ServiceHub.ThreadedWaitDial...		ServiceHub.ThreadedWait...				
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> PerfWatson2.exe		PerfWatson2.exe				
> ServiceHub.VSDetouredHost.e...		ServiceHub.VSDetouredH...	0%	35.4 MB	0 MB/s	0 Mbps
> LenovoVantageService	Efficiency ...	LenovoVantageService.exe	0%	35.4 MB	0 MB/s	0 Mbps
> ServiceHub.VSDetouredHost.e...		ServiceHub.VSDetouredH...	0%	35.3 MB	0 MB/s	0 Mbps
> VBCSCompiler		VBCSCompiler.exe	0%	35.3 MB	0 MB/s	0 Mbps
> ServiceHub.Host.dotnetx64		ServiceHub.Host.dotnetx...	0%	35.1 MB	0 MB/s	0 Mbps

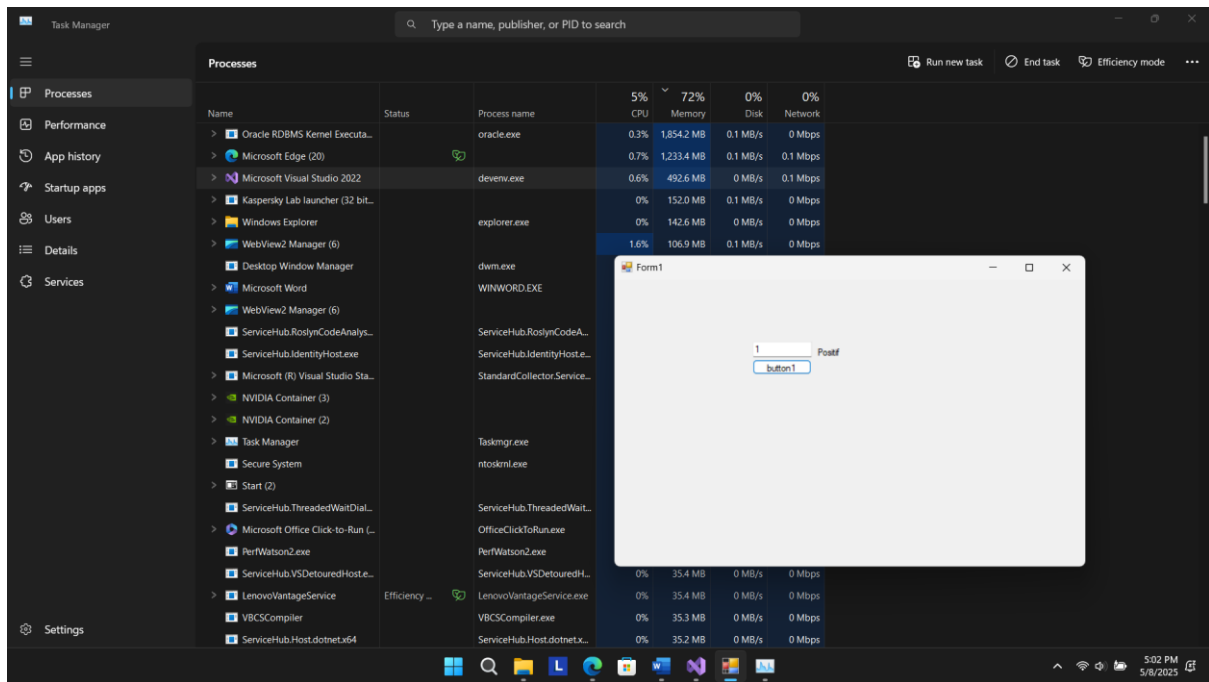
Form1

0

button1

Not

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Form1.cs

```

1. using System;
2. using System.Collections.Generic;
3. using System.ComponentModel;
4. using System.Data;
5. using System.Drawing;
6. using System.Linq;
7. using System.Text;
8. using System.Threading.Tasks;
9. using System.Windows.Forms;
10.
11. namespace tpmodul12_2311104053
12. {
13.     public partial class Form1 : Form
14.     {
15.         public Form1()
16.         {
17.             InitializeComponent();
18.         }
19.
20.         private void button1_Click(object sender, EventArgs e)
21.         {
22.             int input;
23.             if (int.TryParse(textBox1.Text, out input))
24.             {
25.                 string hasil = CariTandaBilangan(input);
26.                 label1.Text = hasil;
27.             }
28.             else
29.             {
30.                 label1.Text = "Input tidak valid!";
31.             }
32.         }
33.
34.         private string CariTandaBilangan(int a)
35.         {
36.             if (a < 0)
37.                 return "Negatif";
38.             else if (a > 0)

```

```
39.         return "Positif";
40.     else
41.         return "Nol";
42.     }
43.
44.
45.     }
46. }
47.
```

Penjelasan codingan:

1. Form.cs

- a. Aplikasi Windows Forms untuk menentukan tanda bilangan dari input pengguna.
- b. `button1_Click()` membaca nilai dari `textBox1`, memeriksa validitasnya, lalu memanggil `CariTandaBilangan()`.
- c. `CariTandaBilangan(int a) → Mengembalikan "Positif", "Negatif", atau "Nol"` berdasarkan nilai input.
- d. Hasil ditampilkan di `label1`.

Hasil akhirnya: pengguna memasukkan angka, lalu aplikasi menampilkan apakah angka tersebut positif, negatif, atau nol.