

JURNAL
KONSTRUKSI PERANGKAT LUNAK
PERTEMUAN 3



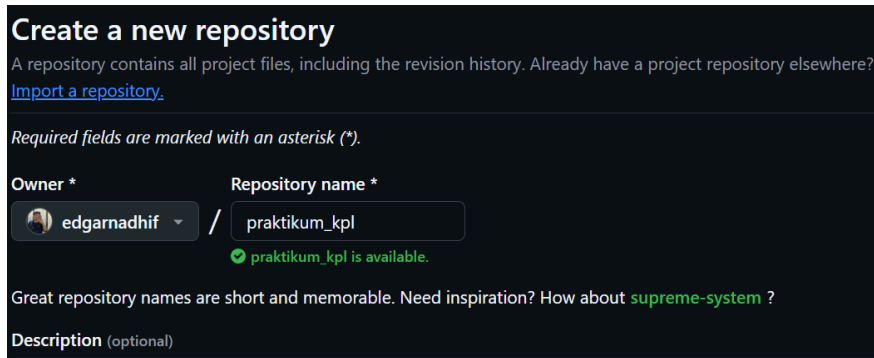
Oleh :

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PROGRAM STUDI S1 SOFTWARE ENGINEERING
FAKULTAS INFORMATIKA
TELKOM UNIVERSITY PURWOKERTO
2025

1. Membuat Project Baru


a. Membuat repository baru



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

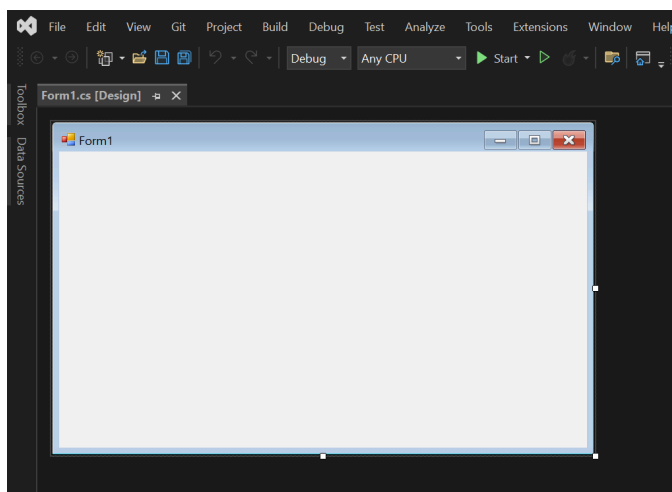
Owner *  **Repository name ***

✔ praktikum_kpl is available.

Great repository names are short and memorable. Need inspiration? How about **supreme-system** ?

Description (optional)

b. Buat project baru pada IDE dengan nama modul2_2211104019



c. Melakukan first commit dan push

```
$ git clone /c/Users/edgar/source/repos/modul02_2211104019
fatal: destination path 'modul02_2211104019' already exists and is not an empty
directory.
$ git init
$ git init
Reinitialized existing Git repository in C:/Users/edgar/OneDrive/Documents/SMTR
6/KPL/Test/praktikum_kpl/.git/
edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git add .
edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git commit -m "First commit"
[main (root-commit) 1512107] First commit
18 files changed, 527 insertions(+)
create mode 100644 modul02_2211104019/.vs/modul02_2211104019/v17/.suo
create mode 100644 modul02_2211104019/.vs/modul02_2211104019/v17/DocumentLayout
.backup.json
create mode 100644 modul02_2211104019/.vs/modul02_2211104019/v17/DocumentLayout
.json
create mode 100644 modul02_2211104019/modul02_2211104019.sln
create mode 100644 modul02_2211104019/modul02_2211104019/App.config
create mode 100644 modul02_2211104019/modul02_2211104019/Form1.Designer.cs
create mode 100644 modul02_2211104019/modul02_2211104019/Form1.cs
create mode 100644 modul02_2211104019/modul02_2211104019/Program.cs
create mode 100644 modul02_2211104019/modul02_2211104019/Properties/AssemblyInf
```

```
edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git push origin main
Enumerating objects: 27, done.
Counting objects: 100% (27/27), done.
Delta compression using up to 8 threads
Compressing objects: 100% (23/23), done.
Writing objects: 100% (27/27), 13.86 KiB | 1.26 MiB/s, done.
Total 27 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/edgarnadhif/praktikum_kpl.git
 * [new branch]      main -> main
```

2. Menambahkan GUI

Dengan spesifikasi sebagai berikut:

- Mempunyai 12 buah button, yang terdiri dari angka “0” sampai “9”, tombol “+” dan tombol “=”
- Mempunyai label text yang menampung output
- Memiliki layout GUI yang mengikuti tampilan berikut ini (tergantung dari hasil mod dari nim praktikan)
- Karena nim saya 2211104019 maka saya menggunakan yang ini :

Label Output		
1	2	3
4	5	6
7	8	9
+	0	=

3. Membuat GUI dan mengimplementasikan kalkulator sederhana

a. GUI

Form1

1	2	3
4	5	6
7	8	9
+	0	=

b. Implementasi

```
4  namespace modul02_2211104019
5  {
6      3 references
7      public partial class Form1 : Form
8      {
9          private string input = "";
10         private int num1 = 0;
11         private int num2 = 0;
12         private bool isSecondNumber = false;
13         private string currentOperator = "";
14
15         1 reference
16         public Form1()
17         {
18             InitializeComponent();
19         }
20
21         1 reference
22         private void button1_Click(object sender, EventArgs e) { AppendNumber("1"); }
23         1 reference
24         private void button2_Click(object sender, EventArgs e) { AppendNumber("2"); }
25         1 reference
26         private void button3_Click(object sender, EventArgs e) { AppendNumber("3"); }
27         1 reference
28         private void button4_Click(object sender, EventArgs e) { AppendNumber("4"); }
29         1 reference
30         private void button5_Click(object sender, EventArgs e) { AppendNumber("5"); }
31         1 reference
32         private void button6_Click(object sender, EventArgs e) { AppendNumber("6"); }
33         1 reference
34         private void button7_Click(object sender, EventArgs e) { AppendNumber("7"); }
35         1 reference
36         private void button8_Click(object sender, EventArgs e) { AppendNumber("8"); }
37         1 reference
38         private void button9_Click(object sender, EventArgs e) { AppendNumber("9"); }
39         1 reference
40         private void button0_Click(object sender, EventArgs e) { AppendNumber("0"); }
```

```

30 1 reference
31 private void buttonplus_Click(object sender, EventArgs e)
32 {
33     if (!isSecondNumber && input != "")
34     {
35         num1 = int.Parse(input);
36         currentOperator = "+";
37         input += " ";
38         textBox1.Text = input;
39         isSecondNumber = true;
40         input = "";
41     }
42 }
43 1 reference
44 private void buttonequal_Click(object sender, EventArgs e)
45 {
46     if (isSecondNumber && input != "")
47     {
48         num2 = int.Parse(input);
49         int result = 0;
50         if (currentOperator == "+")
51         {
52             result = num1 + num2;
53         }
54         textBox1.Text = result.ToString();
55         input = result.ToString();
56         isSecondNumber = false;
57     }
58 }
59
60

```

```

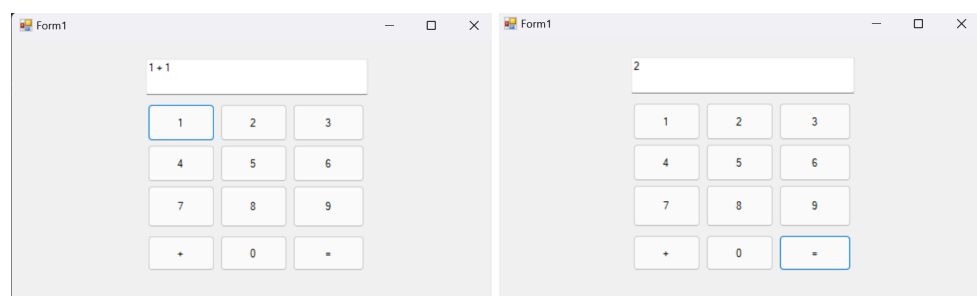
61 10 references
62 private void AppendNumber(string number)
63 {
64     input += number;
65     textBox1.Text = textBox1.Text + number;
66 }
67 1 reference
68 private void Textbox1(object sender, EventArgs e) { }
69 1 reference
70 private void tableLayoutPanel1_Paint(object sender, PaintEventArgs e) { }
71
72

```

Penjelasan singkat :

Saat kalkulator dijalankan, pengguna dapat memasukkan angka yang langsung tampil di layar. Jika + ditekan, angka pertama disimpan dan currentInput dikosongkan untuk angka berikutnya. Setelah angka kedua dimasukkan dan = ditekan, program menjumlahkan kedua angka dan menampilkan hasilnya. Hasil ini juga disimpan sebagai input baru agar perhitungan bisa dilanjutkan tanpa menghapus layar.

Output :



4. Melakukan Last Commit

Link Repo : https://github.com/edgarnadhif/praktikum_kpl

```
edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git add .

edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git commit -m "Last Commit"
[main 048c9ea] Last Commit
18 files changed, 440 insertions(+), 15 deletions(-)
create mode 100644 modul02_2211104019/modul02_2211104019/Form1.resx
create mode 100644 modul02_2211104019/modul02_2211104019/bin/Debug/modul02_2211104019.exe
create mode 100644 modul02_2211104019/modul02_2211104019/bin/Debug/modul02_2211104019.exe.config
create mode 100644 modul02_2211104019/modul02_2211104019/bin/Debug/modul02_2211104019.pdb
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019/Form1.resources
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019/Properties.Resources.resources
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019.csproj.CoreCompileInputs.cache
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019.csproj.FileListAbsolute.txt
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019.csproj.GenerateResource.cache
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019.exe
create mode 100644 modul02_2211104019/modul02_2211104019/obj/Debug/modul02_2211104019.pdb

edgar@Edgar MINGW64 ~/OneDrive/Documents/SMTR 6/KPL/Test/praktikum_kpl (main)
$ git push origin main
Enumerating objects: 38, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 8 threads
Compressing objects: 100% (20/20), done.
Writing objects: 100% (25/25), 18.79 KiB | 1.57 MiB/s, done.
Total 25 (delta 4), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
To https://github.com/edgarnadhif/praktikum_kpl.git
1512107..048c9ea main -> main
```