

Nama : Reva Doni Aprilio

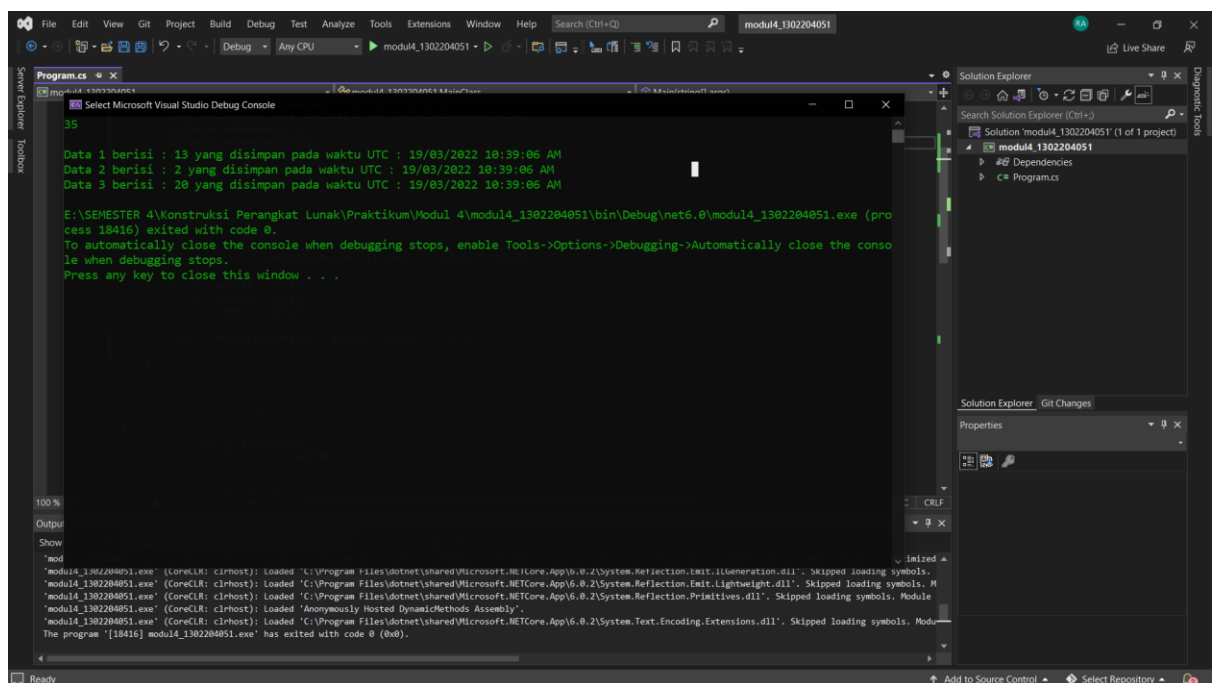
NIM : 1302204051

Kelas : SE-44-01

Jurnal Modul 4

1. Link Repository
<https://github.com/RevDonz/jurnal-modul-4-kpl>
2. Screenshot

Hasil program ketika dijalankan :

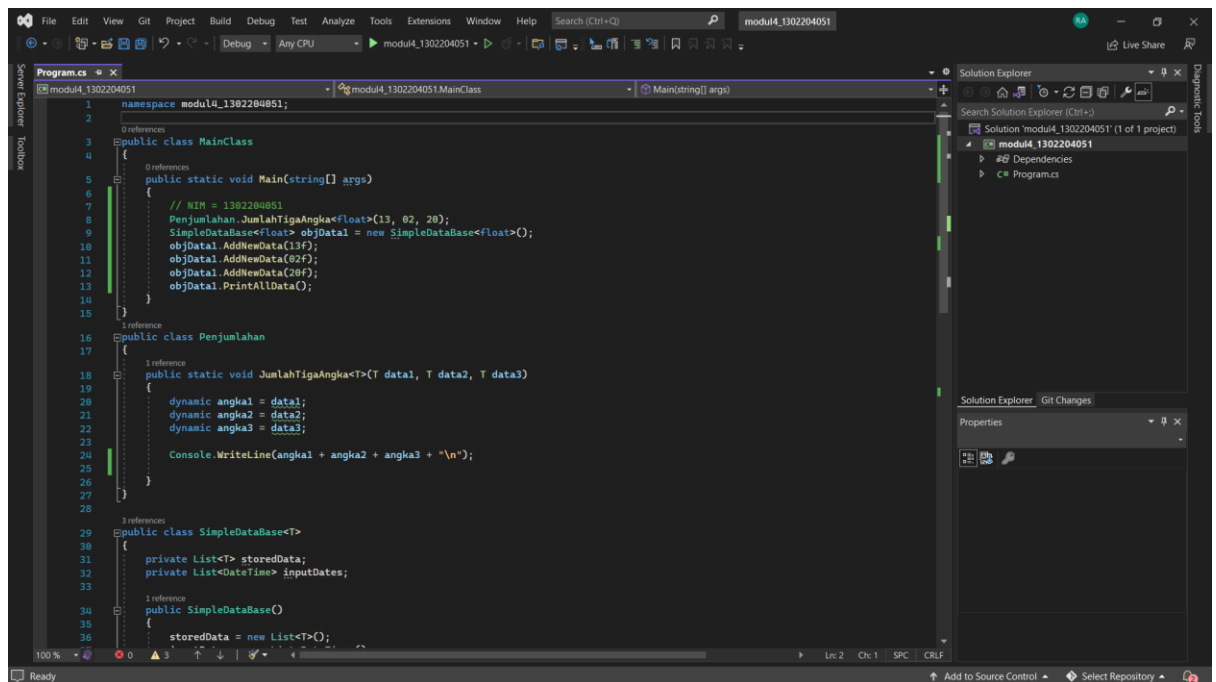


```
Program.cs
35
Data 1 berisi : 13 yang disimpan pada waktu UTC : 19/03/2022 10:39:06 AM
Data 2 berisi : 2 yang disimpan pada waktu UTC : 19/03/2022 10:39:06 AM
Data 3 berisi : 20 yang disimpan pada waktu UTC : 19/03/2022 10:39:06 AM

E:\SEMESTER 4\Konstruksi Perangkat Lunak\Praktikum\Modul 4\modul4_1302204051\bin\Debug\net6.0\modul4_1302204051.exe (process 18416) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .

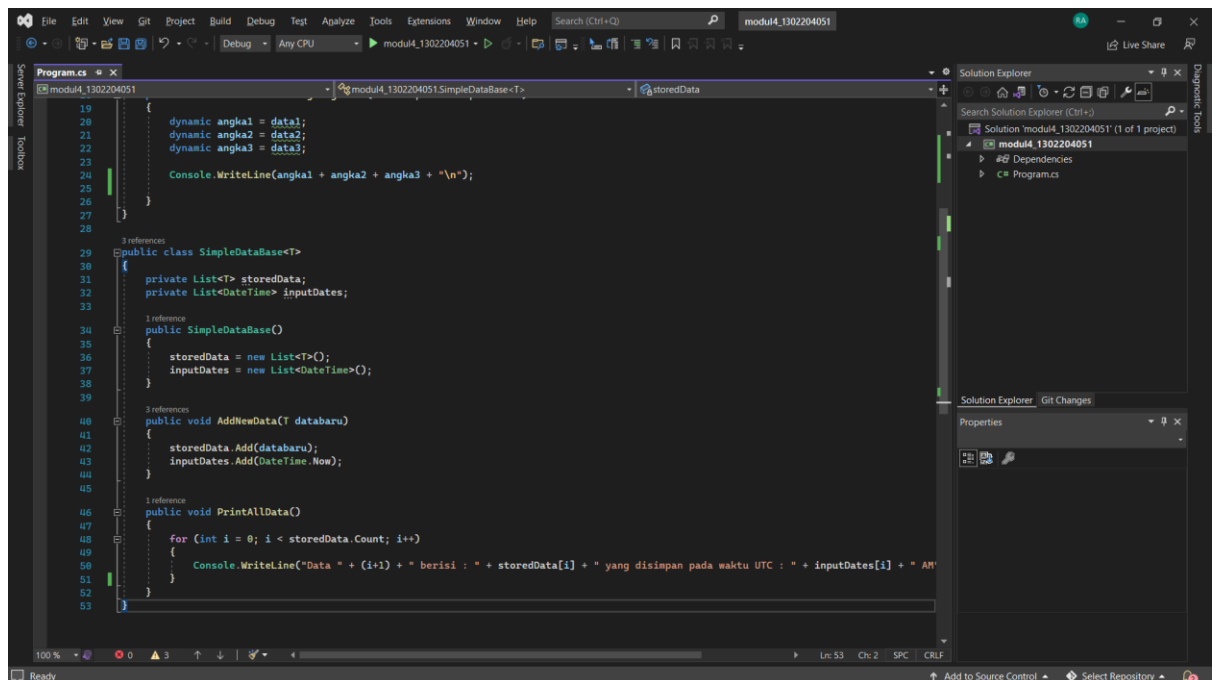
Output
Show
100%
mod
'modul4_1302204051.exe' (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\6.0.2\System.Reflection.Emit.ILGeneration.dll'. Skipped loading symbols.
'modul4_1302204051.exe' (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\6.0.2\System.Reflection.Emit.Lightweight.dll'. Skipped loading symbols. M
'modul4_1302204051.exe' (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\6.0.2\System.Reflection.Primitives.dll'. Skipped loading symbols. Module
'modul4_1302204051.exe' (CoreCLR: clrhost): Loaded 'Anonymous Hosted DynamicMethods Assembly'.
'modul4_1302204051.exe' (CoreCLR: clrhost): Loaded 'C:\Program Files\dotnet\shared\Microsoft.NETCore.App\6.0.2\System.Text.Encoding.Extensions.dll'. Skipped loading symbols. Modu
The program '[18416] modul4_1302204051.exe' has exited with code 0 (0x0).
```

Kode Program :



```
1 namespace modul4_1302204051;
2
3 public class MainClass
4 {
5     public static void Main(string[] args)
6     {
7         // NIM = 1302204051
8         Penjumlahan.JumlahTigaAngka<float>(13, 02, 20);
9         SimpleDataBase<float> objData1 = new SimpleDataBase<float>();
10        objData1.AddNewData(13F);
11        objData1.AddNewData(02F);
12        objData1.AddNewData(20F);
13        objData1.PrintAllData();
14    }
15 }
16
17 public class Penjumlahan
18 {
19     public static void JumlahTigaAngka<T>(T data1, T data2, T data3)
20     {
21         dynamic angka1 = data1;
22         dynamic angka2 = data2;
23         dynamic angka3 = data3;
24
25         Console.WriteLine(angka1 + angka2 + angka3 + "\n");
26     }
27 }
28
29 public class SimpleDataBase<T>
30 {
31     private List<T> storedData;
32     private List<DateTime> inputDates;
33
34     public SimpleDataBase()
35     {
36         storedData = new List<T>();
37     }
38 }
```

Di method Main isinya berupa pembuatan objek dan penambahan data. Karena menerapkan method generic jadi tipe data nya harus disebutkan sesuai data yg dikirim melalui parameter. Kemudian di method JumlahTigaAngka parameter menggunakan tipe T sebagai penerapan generic dan ditangkap kedalam variable bertipe dynamic yang tipe nya menyesuaikan dari tipe T tersebut.



```
19 {
20     dynamic angka1 = data1;
21     dynamic angka2 = data2;
22     dynamic angka3 = data3;
23
24     Console.WriteLine(angka1 + angka2 + angka3 + "\n");
25 }
26
27 }
28
29 public class SimpleDataBase<T>
30 {
31     private List<T> storedData;
32     private List<DateTime> inputDates;
33
34     public SimpleDataBase()
35     {
36         storedData = new List<T>();
37         inputDates = new List<DateTime>();
38     }
39
40     public void AddNewData(T databaru)
41     {
42         storedData.Add(databaru);
43         inputDates.Add(DateTime.Now);
44     }
45
46     public void PrintAllData()
47     {
48         for (int i = 0; i < storedData.Count; i++)
49         {
50             Console.WriteLine("Data " + (i+1) + " berisi : " + storedData[i] + " yang disimpan pada waktu UTC : " + inputDates[i] + " AM");
51         }
52     }
53 }
```

Di Class SimpleDataBase deklarasi properti storedData dan inputDates yang merupakan List bertipe generic dan DateTime. Lalu ada construction untuk membuat property storedData dan inputDates berisi List kosong. Method AddNewData untuk menambahkan data baru dan method PrintAllData untuk menampilkan semua data.