

JURNAL KPL Modul 5

Nama : Putra Strata Tandika Setyawan

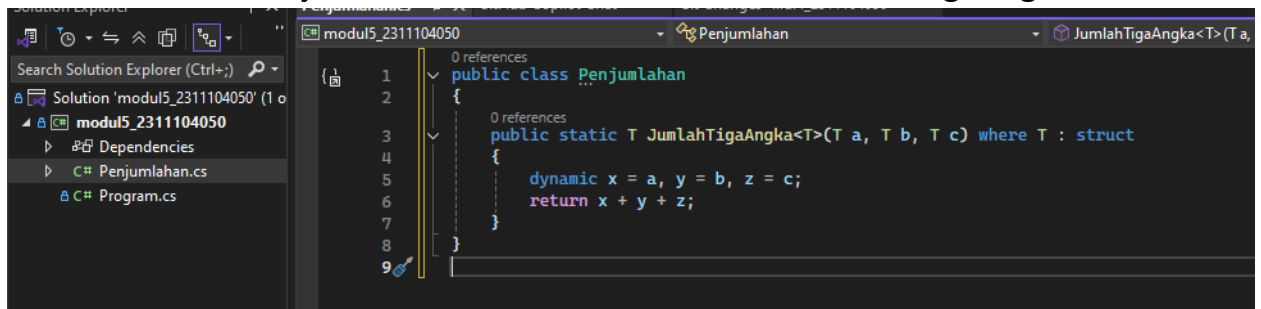
NIM : 2311104050

Kelas : S1SE0702

1. Membuat Branch baru:

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git branch implementasi-generic-method
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git checkout implementasi-generic-method
Switched to branch 'implementasi-generic-method'
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>
```

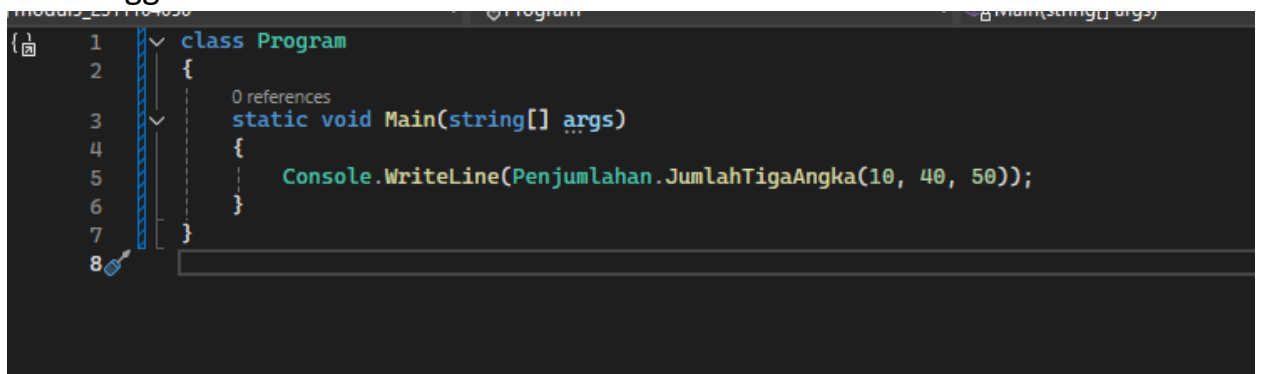
2. Membuat class Penjumlahan dan tambahkn method JumlahTigaAngka :



```
modul5_2311104050
Solution Explorer (Ctrl+;)
modul5_2311104050
  Dependencies
  C# Penjumlahan.cs
  C# Program.cs

Penjumlahan
1 public class Penjumlahan
2 {
3     0 references
4     public static T JumlahTigaAngka<T>(T a, T b, T c) where T : struct
5     {
6         0 references
7         dynamic x = a, y = b, z = c;
8         return x + y + z;
9     }
10 }
```

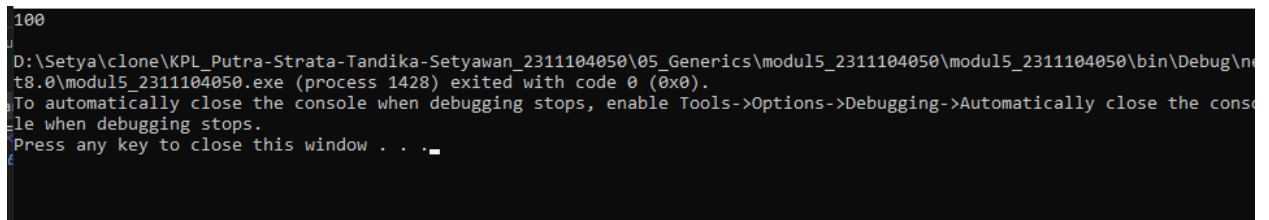
Memanggil method :



```
modul5_2311104050
Solution Explorer (Ctrl+;)
modul5_2311104050
  Dependencies
  C# Penjumlahan.cs
  C# Program.cs

Program
1 class Program
2 {
3     0 references
4     static void Main(string[] args)
5     {
6         Console.WriteLine(Penjumlahan.JumlahTigaAngka(10, 40, 50));
7     }
8 }
```

Outputnya :



```
100
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050\modul5_2311104050\bin\Debug\net8.0\modul5_2311104050.exe (process 1428) exited with code 0 (0x0).
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 . . .
```

3. Lalu commit dan push branch :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git add .
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git commit -m "Menambahkan class Penjumlahan dengan method JumlahTigaAngka"
[Implementasi-generic-method e8253fe] Menambahkan class Penjumlahan dengan method JumlahTigaAngka
19 files changed, 70 insertions(+), 4 deletions(-)
create mode 100644 modul5_2311104050/Penjumlahan.cs
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.deps.json
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.exe
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.runtimeconfig.json
create mode 100644 modul5_2311104050/obj/Debug/net8.0/apphost.exe
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.BuildWithSkipAnalyzers
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.CoreCompileInputs.cache
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.FileListAbsolute.txt
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.genruntimeconfig.cache
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.sourcelink.json
create mode 100644 modul5_2311104050/obj/Debug/net8.0/ref/modul5_2311104050.dll
create mode 100644 modul5_2311104050/obj/Debug/net8.0/refint/modul5_2311104050.dll
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git push origin implementasi-generic-method
Enumerating objects: 33, done.
Counting objects: 100% (33/33), done.
Delta compression using up to 2 threads
Compressing objects: 100% (20/20), done.
Writing objects: 100% (25/25), 74.73 KiB | 1.74 MiB/s, done.
Total 25 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
remote:
remote: Create a pull request for 'implementasi-generic-method' on GitHub by visiting:
remote:   https://github.com/setya31/jurnalmodul5_2311104050/pull/new/implementasi-generic-method
remote:
To https://github.com/setya31/jurnalmodul5_2311104050.git
 * [new branch]      implementasi-generic-method -> implementasi-generic-method
```

4. Lalu kembali ke branch utama :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

5. Membuat branch baru :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git branch implementasi-generic-class
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git checkout implementasi-generic-class
Switched to branch 'implementasi-generic-class'
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>
```

6. Membuat Class SimpleDataBase :

```
modul5_2311104050 SimpleDataBase<T> storedData
1  ~ references
2  public class SimpleDataBase<T>
3  {
4      private List<T> storedData = new List<T>();
5      private List<DateTime> inputDates = new List<DateTime>();
6
7      0 references
8      public void AddNewData(T data)
9      {
10         storedData.Add(data);
11         inputDates.Add(DateTime.UtcNow);
12     }
13
14     1 reference
15     public void PrintAllData()
16     {
17         for (int i = 0; i < storedData.Count; i++)
18         {
19             Console.WriteLine($"Data {i + 1} berisi: {storedData[i]}, yang disimpan pada waktu UTC:
20
```

Panggil method dalam main :

```
5_2311104050 Program Main(string[] a
1 class Program
2 {
3     0 references
4     static void Main(string[] args)
5     {
6         SimpleDataBase<int> db = new SimpleDataBase<int>();
7         db.AddNewData(10);
8         db.AddNewData(40);
9         db.AddNewData(50);
10        db.PrintAllData();
11    }
12 }
```

Outputnya :

```
Data 1 berisi: 10, yang disimpan pada waktu UTC: 16/03/2025 15:34:40
Data 2 berisi: 40, yang disimpan pada waktu UTC: 16/03/2025 15:34:40
Data 3 berisi: 50, yang disimpan pada waktu UTC: 16/03/2025 15:34:40

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050\modul5_2311104050\bin\Debug
net8.0\modul5_2311104050.exe (process 1484) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the c
onsole when debugging stops.
Press any key to close this window . . .
```

Commit dan push ke github :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git add .

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git commit -m "Menambahkan class SimpleDataBase"
[implementasi-generic-class 2eaedd0] Menambahkan class SimpleDataBase
19 files changed, 85 insertions(+), 4 deletions(-)
create mode 100644 modul5_2311104050/SimpleDataBase.cs
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.deps.json
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.exe
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050/bin/Debug/net8.0/modul5_2311104050.runtimeconfig.json
create mode 100644 modul5_2311104050/obj/Debug/net8.0/apphost.exe
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.BuildWithSkipAnalyzers
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.CoreCompileInputs.cache
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.csproj.FileListAbsolute.txt
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.genruntimeconfig.cache
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050/obj/Debug/net8.0/modul5_2311104050.sourcelink.json
create mode 100644 modul5_2311104050/obj/Debug/net8.0/ref/modul5_2311104050.dll
create mode 100644 modul5_2311104050/obj/Debug/net8.0/refint/modul5_2311104050.dll

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git push origin implementasi-generic-class
Enumerating objects: 33, done.
Counting objects: 100% (33/33), done.
Delta compression using up to 2 threads
Compressing objects: 100% (20/20), done.
Writing objects: 100% (25/25), 74.71 KiB | 1.74 MiB/s, done.
Total 25 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 3 local objects.
remote:
remote: Create a pull request for 'implementasi-generic-class' on GitHub by visiting:
remote:   https://github.com/setya31/jurnalmodul5_2311104050/pull/new/implementasi-generic-class
remote:
To https://github.com/setya31/jurnalmodul5_2311104050.git
 * [new branch]   implementasi-generic-class -> implementasi-generic-class

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>
```

Kembali ke branch utama :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>
```

7. Merge Branch ke Master :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git merge implementasi-generic-method
Updating 0e1b3a9..e8253fe
Fast-forward
 modul5_2311104050\Penjumlahan.cs      | 8 ++++++
 modul5_2311104050\Program.cs          | 9 ++++++
 .../bin/Debug/net8.0/modul5_2311104050.deps.json | 23 ++++++
 .../bin/Debug/net8.0/modul5_2311104050.dll      | Bin 0 -> 6144 bytes
 .../bin/Debug/net8.0/modul5_2311104050.exe      | Bin 0 -> 138752 bytes
 .../bin/Debug/net8.0/modul5_2311104050.pdb      | Bin 0 -> 11080 bytes
 .../net8.0/modul5_2311104050.runtimeconfig.json | 12 ++++++
 modul5_2311104050\obj/Debug/net8.0/apphost.exe | Bin 0 -> 138752 bytes
 .../Debug/net8.0/modul5_2311104050.AssemblyInfo.cs | 2 +-
 .../modul5_2311104050.AssemblyInfoInputs.cache | 2 +-
 .../modul5_2311104050.csproj.BuildWithSkipAnalyzers | 0
 .../modul5_2311104050.csproj.CoreCompileInputs.cache | 1 +
 .../modul5_2311104050.csproj.FileListAbsolute.txt | 15 ++++++
 .../obj/Debug/net8.0/modul5_2311104050.dll      | Bin 0 -> 6144 bytes
 .../modul5_2311104050.genruntimeconfig.cache    | 1 +
 .../obj/Debug/net8.0/modul5_2311104050.pdb      | Bin 0 -> 11080 bytes
 .../Debug/net8.0/modul5_2311104050.sourcelink.json | 1 +
 .../obj/Debug/net8.0/ref/modul5_2311104050.dll  | Bin 0 -> 5632 bytes
 .../obj/Debug/net8.0/refint/modul5_2311104050.dll | Bin 0 -> 5632 bytes
19 files changed, 70 insertions(+), 4 deletions(-)
create mode 100644 modul5_2311104050\Penjumlahan.cs
create mode 100644 modul5_2311104050\bin/Debug/net8.0/modul5_2311104050.deps.json
create mode 100644 modul5_2311104050\bin/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050\bin/Debug/net8.0/modul5_2311104050.exe
create mode 100644 modul5_2311104050\bin/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050\bin/Debug/net8.0/modul5_2311104050.runtimeconfig.json
create mode 100644 modul5_2311104050\obj/Debug/net8.0/apphost.exe
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.csproj.BuildWithSkipAnalyzers
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.csproj.CoreCompileInputs.cache
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.csproj.FileListAbsolute.txt
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.dll
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.genruntimeconfig.cache
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.pdb
create mode 100644 modul5_2311104050\obj/Debug/net8.0/modul5_2311104050.sourcelink.json
create mode 100644 modul5_2311104050\obj/Debug/net8.0/ref/modul5_2311104050.dll
create mode 100644 modul5_2311104050\obj/Debug/net8.0/refint/modul5_2311104050.dll
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>_
```

Lalu commit dan push ke github :

```
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git add .
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git commit -m "Menyelesaikan merge conflict"
[main 1f22050] Menyelesaikan merge conflict
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>
[main 1f22050] Menyelesaikan merge conflict
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>git push origin main
Enumerating objects: 28, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 2 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (10/10), 1.04 KiB | 212.00 KiB/s, done.
Total 10 (delta 6), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To https://github.com/setya31/jurnalmodul5_2311104050.git
 0e1b3a9..1f22050  main -> main
D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050>_
```

Hasil Outputnya :

```
100
Data 1 berisi: 10, yang disimpan pada waktu UTC: 16/03/2025 15:50:14
Data 2 berisi: 40, yang disimpan pada waktu UTC: 16/03/2025 15:50:14
Data 3 berisi: 50, yang disimpan pada waktu UTC: 16/03/2025 15:50:14

D:\Setya\clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\05_Generics\modul5_2311104050\modul5_2311104050\bin\Debug\
t8.0\modul5_2311104050.exe (process 8508) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the con
le when debugging stops.
Press any key to close this window . . .
```

8. Link repo :

https://github.com/setya31/jurnalmodul5_2311104050.git