

**PRAKTIKUM KONSTRUKSI PERANGKAT LUNAK  
TUGAS PENDAHULUAN 05**

**Generics**



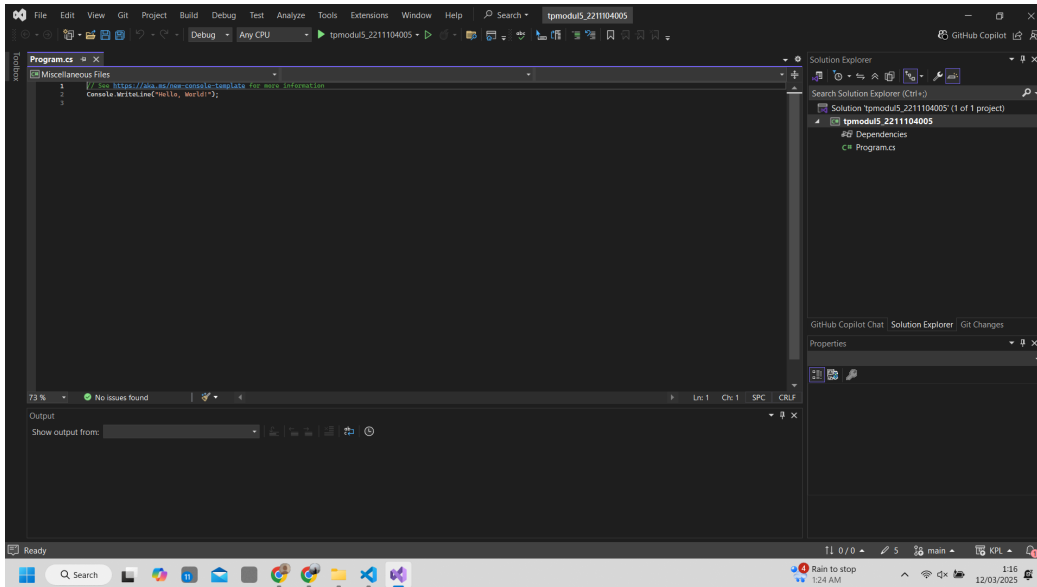
**Telkom  
University**

disusun Oleh:  
Nita Fitrotul Mar'ah  
2211104005

SE0601

**S1 REKAYASA PERANGKAT LUNAK  
FAKULTAS INFORMATIKA  
TELKOM UNIVERSITY  
2025**

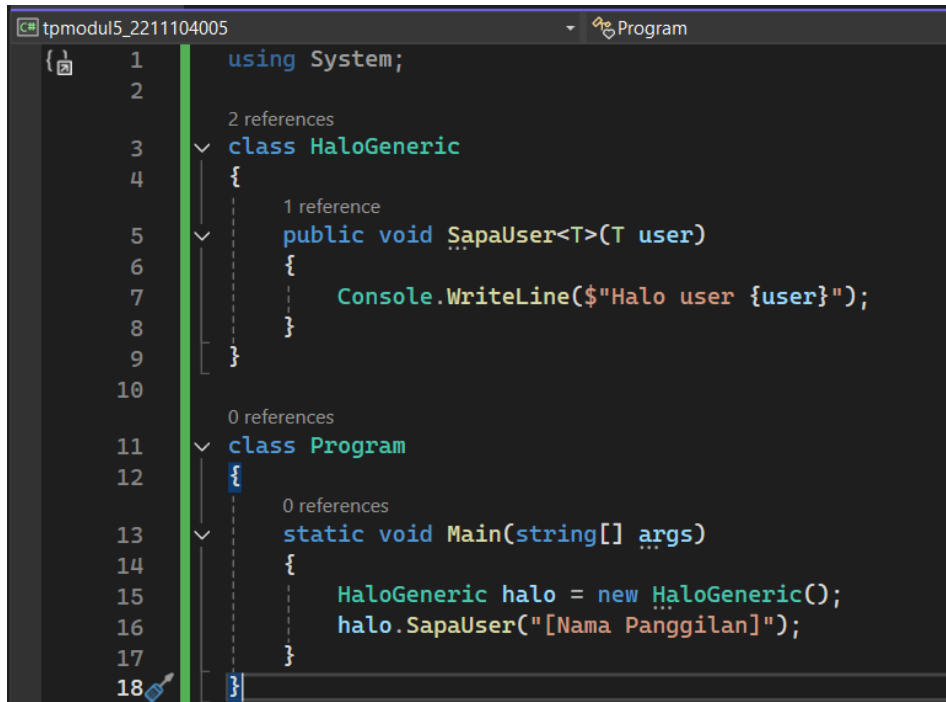
## 1. Membuat Project Console/Tanpa Gui



## 2. Membuat Branch Baru Pada Git Project

```
PS D:\KPL> git branch generic-method2
PS D:\KPL> git checkout generic-method
error: The following untracked working tree files would be overwritten by checkout:
      05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
Please move or remove them before you switch branches.
Aborting
PS D:\KPL> git checkout generic-method2
Switched to branch 'generic-method2'
PS D:\KPL>
```

## 3. Menambahkan Method Dengan Generic



#### 4. Melakukan Commit, Push, Dan Pindah Ke Branch

```
PS D:\KPL> git add 05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
PS D:\KPL> git commit -m "Menambahkan class HaloGeneric dengan method SapaUser"
On branch generic-method
Your branch is ahead of 'origin/generic-method' by 1 commit.
(use "git push" to publish your local commits)

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  05_Generics/tpmodul5_2211104005/.vs/
  05_Generics/tpmodul5_2211104005/tpmodul5_2211104005.sln
  05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/obj/
  05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/tpmodul5_2211104005.csproj

nothing added to commit but untracked files present (use "git add" to track)
PS D:\KPL> git push origin generic-method
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 688 bytes | 62.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601.git
   c242d19..080f281  generic-method -> generic-method
PS D:\KPL> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS D:\KPL> git branch generic-class
fatal: a branch named 'generic-class' already exists
PS D:\KPL> git checkout generic-class
Switched to branch 'generic-class'
PS D:\KPL>
```

#### 5. Menambahkan Method Dengan Generic

```
PS D:\KPL> git add 05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
PS D:\KPL> git push origin generic-method
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 688 bytes | 98.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'generic-method' on GitHub by visiting:
remote:   https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601/pull/new/generic-method
remote:
To https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601.git
 * [new branch]      generic-method -> generic-method
PS D:\KPL> git checkout main
A       05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS D:\KPL> git branch generic-class2
PS D:\KPL> git checkout generic-class2
A       05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
Switched to branch 'generic-class2'
PS D:\KPL>
```

## 6. Menambahkan Method Dengan Generic

```
Program.cs  [X]
C# tpmodul5_2211104005  Program

3 references
1  class DataGeneric<T>
2  {
3      private T data;
4      public DataGeneric(T data)
5      {
6          this.data = data;
7      }
8      public void PrintData()
9      {
10         Console.WriteLine($"Data yang tersimpan adalah: {data}");
11     }
12 }

0 references
14 class Program
15 {
16     static void Main(string[] args)
17     {
18         DataGeneric<string> data = new DataGeneric<string>("2211104005");
19         data.PrintData();
20     }
21 }
```

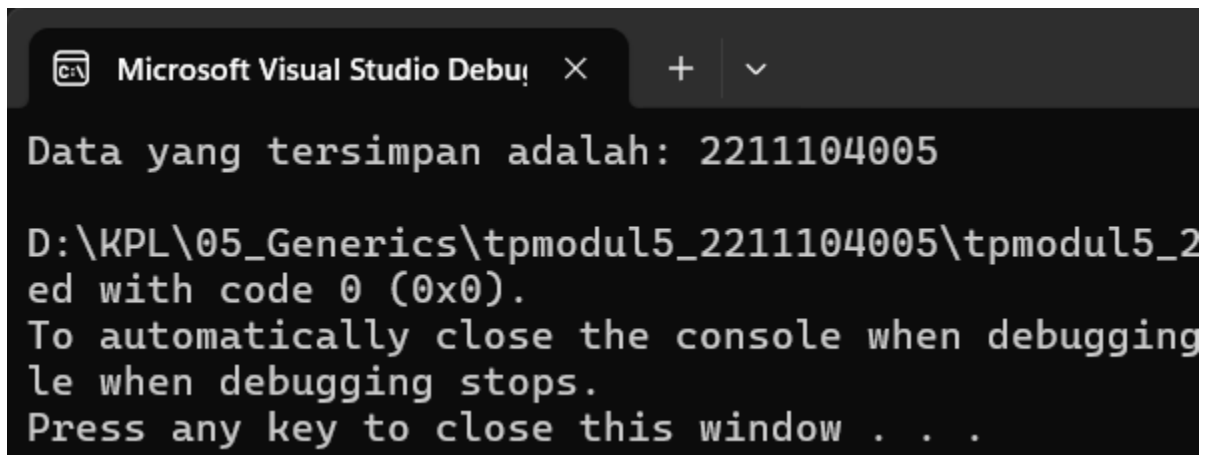
## 7. Melakukan Commit, Push, Dan Pindah Branch Bagian 2

```
PS D:\KPL> git add 05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
PS D:\KPL> git commit -m "Menambahkan class DataGeneric"
[generic-class2 185ca6a] Menambahkan class DataGeneric
1 file changed, 21 insertions(+)
create mode 100644 05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
PS D:\KPL> git push origin generic-class
Everything up-to-date
PS D:\KPL> git push origin generic-class2
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 2 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 680 bytes | 680.00 KiB/s, done.
Total 6 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'generic-class2' on GitHub by visiting:
remote:   https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601/pull/new/generic-class2
remote:
To https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601.git
 * [new branch]   generic-class2 -> generic-class2
PS D:\KPL> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS D:\KPL>
```

## 8. Melakukan Git Merge Dari Kedua Branch Baru

```
PS D:\KPL> git merge generic-method2
Already up to date.
PS D:\KPL> git merge generic-class2
Updating 003b6de..185ca6a
Fast-forward
 .../tpmodul5_2211104005/Program.cs      | 21 ++++++
 1 file changed, 21 insertions(+)
 create mode 100644 05_Generics/tpmodul5_2211104005/tpmodul5_2211104005/Program.cs
PS D:\KPL> git push origin main
Total 0 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Nitaa1904/KPL_NitaFitrotulMar-ah_2211104005_S1SE0601.git
 003b6de..185ca6a  main -> main
PS D:\KPL>
```

## 9. Screenshot Hasil Run



The screenshot shows a window titled "Microsoft Visual Studio Debug Console". The output text is as follows:

```
Data yang tersimpan adalah: 2211104005

D:\KPL\05_Generics\tpmodul5_2211104005\tpmodul5_2
ed with code 0 (0x0).
To automatically close the console when debugging
le when debugging stops.
Press any key to close this window . . .
```