# Tugas Pendahuluan Modul 5 Konstruksi Perangkat Lunak PRODI REKAYASA PERANGKAT LUNAK



# Nama:

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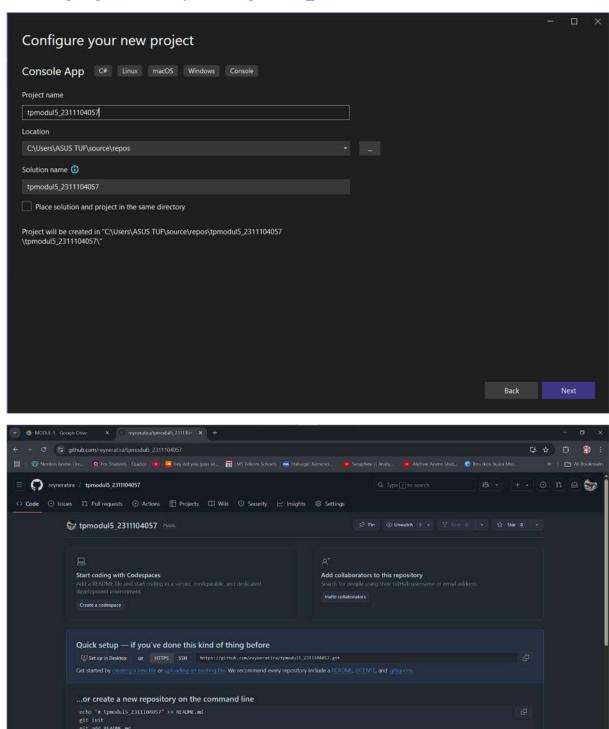
# DIREKTORAT TELKOM UNIVERSITY PURWOKERTO

# Tugas Pendahuluan Modul 5

git commit -m "first commit"

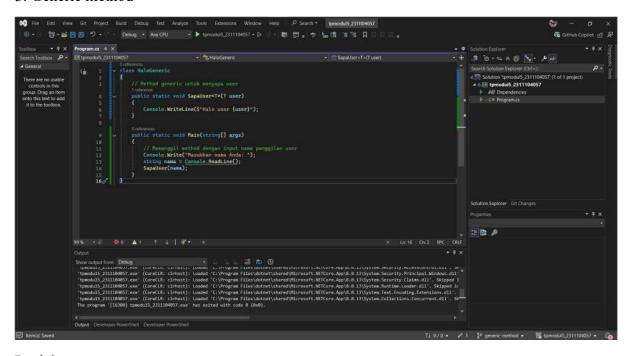
## 1. GitHub dan Git

Link: <a href="https://github.com/reyneratira/tpmodul5">https://github.com/reyneratira/tpmodul5</a> 2311104057



# 2. Membuat branch baru (generic-method)

## 3. Generic method



# Penjelasan:

- Metode generic SapaUser akan menerima input dari berbagai tipe data dan mencetak pesan sapaan.

# Hasil Run:

```
Masukkan nama Anda: Reyner
Halo user Reyner

C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057\tpmodul5_2311104057\bin\Debug\net8.0\tpmodul5_2311104057.exe (process 19724) 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 . . .
```

## 4. Git commit dan push

```
PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git push origin -u generic-method
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 620 bytes | 620.00 KiB/s, done.
Total 4 (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:
             https://github.com/reyneratira/tpmodul5_2311104057/pull/new/generic-method
remote:
remote:
To https://github.com/reyneratira/tpmodul5_2311104057.git
                     generic-method -> generic-method
* [new branch]
branch 'generic-method' set up to track 'origin/generic-method'.
PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057>
```

#### 5. Membuat branch baru (generic-class)

```
branch 'generic-method' set up to track 'origin/generic-method'.

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git checkout master

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git checkout -b generic-class

Switched to a new branch 'generic-class'

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057>
```

## 6. Generic class

```
Program.cs = X
                                              + <sup>o</sup>g Program
tpmodul5_2311104057

→ Main(string[] args)

                public class DataGeneric<T>
                    // Konstruktor dengan parameter
Treference
                    public DataGeneric(T data)
                         this.data = data;
                     // Method untuk menampilkan data
                     public void PrintData()
                        Console.WriteLine("Data yang tersimpan adalah :" + data);
       13
14
15
                public class Program
                    public static void Main(string[] args)
                        DataGeneric<string> dataNIM = new DataGeneric<string>("2311104057");
                                   18/+
```

#### Penjelasan:

- T adalah tipe generic yang memungkinkan DataGeneric menyimpan berbagai jenis data
- Konstruktor menerima satu parameter bertipe T dan menginisialisasi atribut data.
- PrintData() mencetak nilai data dengan format yang diminta.
- Dalam Main(), objek DataGeneric<string> dibuat dengan nilai NIM, lalu method PrintData() dipanggil untuk mencetaknya.

#### Hasil Run:

```
Microsoft Visual Studio Debug Console

Data yang tersimpan adalah :2311104057

C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057\tpmodul5_2311104057\bin\Debug\net8.0\tpmodul5_2311104057.exe (process 19184) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the conso le when debugging stops.

Press any key to close this window . . .
```

# 7. Git commit dan push

```
PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git add .

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git commit -m "menambahkan class DataGeneric"

[generic-class 220ffff] menambahkan class DataGeneric

1 file changed, 25 insertions(+), 2 deletions(-)

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git push origin -w generic-class

Enumerating objects: 7, done.

Counting objects: 100% (7/7), done.

Delta compression using up to 8 threads

Compression using up to 8 threads

Compressing objects: 100% (4/4), 690 bytes | 690.00 Ki8/s, done.

Writing objects: 100% (4/4), 690 bytes | 690.00 Ki8/s, done.

Total 4 (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-class' on GitHub by visiting:

remote: https://github.com/reyneratira/tpmodul5_2311104057/pull/new/generic-class

remote:

To https://github.com/reyneratira/tpmodul5_2311104057.git

* [new branch] generic-class -> generic-class'.

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057>

* [new branch] generic-class' set up to track 'origin/generic-class'.

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057>
```

#### 8. Git merge dan push

```
Automatic merge raileo; fix conflicts and then commit the result.

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git add .

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git commit -m "Merged HaloGeneric and DataGeneric classes"

[master 0d9ba7c] Merged HaloGeneric and DataGeneric classes

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057> git push origin master

>>

Enumerating objects: 10, done.

Counting objects: 100% (10/10), done.

Delta compression using up to 8 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), dose bytes | 658.00 KiB/s, done.

Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/reyneratira/tpmodul5_2311104057> git

53d14ac..0d9ba7c master -> master

PS C:\Users\ASUS TUF\source\repos\tpmodul5_2311104057>
```