

**Tugas Pendahuluan Modul 7**  
**Konstruksi Perangkat Lunak**  
**PRODI REKAYASA PERANGKAT LUNAK**



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**S1SE-07-02**

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**PURWOKERTO**

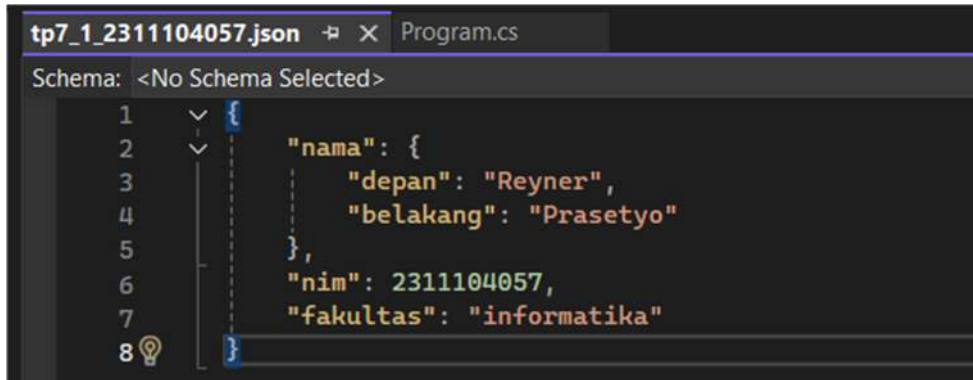
## Tugas Pendahuluan Modul 7

### 1. GitHub dan Git

Membuat branch dengan nama depan

```
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git checkout -b reyner
Switched to a new branch 'reyner'
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3>
```

### 2. Mengisi file json



### 3. Read Json 1

```
public static void ReadJSON()
{
    string path = "tp7_1_2311104057.json"; // ganti dengan nama file yang sudah diganti sesuai NIM
    string jsonContent = File.ReadAllText(path);

    Mahasiswa mhs = JsonSerializer.Deserialize<Mahasiswa>(jsonContent);

    Console.WriteLine($"Nama {mhs.nama.depan} {mhs.nama.belakang} dengan nim {mhs.nim} dari fakultas {mhs.fakultas}");
}
```

Menggunakan JsonSerializer.Deserialize untuk mengekstrak konten dari file json ke dalam objek Mahasiswa mhs yang telah dibuat, lalu menggunakan console writeline untuk menampilkan isinya.

```
Microsoft Visual Studio Debug Console
Nama Reyner Prasetyo dengan nim 2311104057 dari fakultas informatika

D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3\tpmodul7_kelompok_3\bin\Debug\net8.0\tpmodul7_kelompok_3.exe (process 2556) 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. Push

```
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git add .
warning: in the working copy of 'tpmodul7_kelompok_3/tp7_1_2311104057.json', LF will be replaced by CRLF the next time Git touches it
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git commit -m "menambahkan class DataMahasiswa2311104057"
[reyner c01bc1d] menambahkan class DataMahasiswa2311104057
4 files changed, 57 insertions(+), 2 deletions(-)
create mode 100644 Class1.cs
create mode 100644 tpmodul7_kelompok_3/tp7_1_2311104057.json
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git push -u origin reynr
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 1.15 KiB | 587.00 KiB/s, done.
Total 7 (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 'reynr' on GitHub by visiting:
remote:   https://github.com/reynratira/tpmodul7_kelompok_3/pull/new/reynr
remote:
To https://github.com/reynratira/tpmodul7_kelompok_3.git
 * [new branch]   reynr -> reynr
branch 'reynr' set up to track 'origin/reynr'.
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3>
```

#### 5. Read Json 2

```
public static void ReadJSON()
{
    string path = "tp7_2_2311104057.json"; // ganti dengan nama file yang sudah diganti sesuai NIM
    string jsonContent = File.ReadAllText(path);
    ListMatkul listMatkul = JsonSerializer.Deserialize<ListMatkul>(jsonContent);
    int count = 1;
    foreach (var matkul in listMatkul.courses)
    {
        Console.WriteLine($"MK {count} {matkul.code} - {matkul.name}");
        count++;
    }
}
```

Menggunakan konsep yang sama dengan fungsi sebelumnya dengan tambahan looping foreach untuk mengekstrak isi dari ListMatkul

```
Microsoft Visual Studio Debug Console


Nama Reyner Prasetyo dengan nim 2311104057 dari fakultas informatika
MK 1 CRI2C4 - Konstruksi Perangkat Lunak
MK 2 kode_matkul_2 - nama_matkul_2
MK 3 kode_matkul_3 - nama_matkul_3
MK 4 kode_matkul_4 - nama_matkul_4
MK 5 kode_matkul_5 - nama_matkul_5
MK 6 kode_matkul_6 - nama_matkul_6
MK 7 kode_matkul_7 - nama_matkul_7

D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3\tpmodul7_kelompok_3\bin\Debug\net8.0\tpmodul7_kelompok_3.exe (process 19640) 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 . . .
```

## 6. Push

```
Developer PowerShell
+ Developer PowerShell
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git add .
warning: in the working copy of 'tpmodul7_kelompok_3/tp7_2_2311104057.json', LF will be replaced by CRLF the next time Git touches it
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git commit -m "menambahkan class KuliahMahasiswa2311104057"
[reyner 0fd4b79] menambahkan class KuliahMahasiswa2311104057
4 files changed, 71 insertions(+)
 create mode 100644 tpmodul7_kelompok_3/KuliahMahasiswa2311104057.cs
 create mode 100644 tpmodul7_kelompok_3/tp7_2_2311104057.json
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3> git push
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 8 threads
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 1.19 KiB | 1.19 MiB/s, done.
Total 7 (delta 3), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
To https://github.com/reyneraura/tpmodul7_kelompok_3.git
 a568f6f..0fd4b79  reyneraura -> reyneraura
PS D:\KULIAH\SEMESTER 4\KPL Praktikum\kelompok\Modul07\tpmodul7_kelompok_3>
```

## 7. Pull request ke main branch





**reyneratira** commented now


Owner


...

Merging dengan master





**reyneratira** added 4 commits 14 hours ago




 menambahkan class DataMahasiswa2311104057


c01bc1d




 menambahkan class DataMahasiswa2311104057


29552e9




 Fix : merged Program class from previous push and separated DataMahas...

a568f6f



 menambahkan class KuliahMahasiswa2311104057

0fd4b79




✓

**No conflicts with base branch**  
Merging can be performed automatically.

Merge pull request

▼

You can also merge this with the command line. [View command line instructions.](#)



**Commit message**

Merge pull request #1 from reyneratira/reyn

**Extended description**


Reyner : merge branch reyn

**Commit email**

tneon590@gmail.com

Confirm merge

Cancel



**Pull request successfully merged and closed**

You're all set — the **reyner** branch can be safely deleted.

Delete branch