

KPL J7
2311104037
RESITA ISTANIA PURWANTO
S1SE0701

Kode:

```
1  {  
2    "members": [  
3      {  
4        "nim": "2311104037",  
5        "firstname": "Resita",  
6        "lastname": "Purwanto",  
7        "age": 20,  
8        "gender": "Female"  
9      },  
10     {  
11       "nim": "2311104002",  
12       "firstname": "Shilfi",  
13       "lastname": "Azzahra",  
14       "age": 20,  
15       "gender": "Female"  
16     },  
17     {  
18       "nim": "2311104008",  
19       "firstname": "Viona",  
20       "lastname": "Putri",  
21       "age": 20,  
22       "gender": "Female"  
23     },  
24     {  
25       "nim": "2311104004",  
26       "firstname": "Marshel",  
27       "lastname": "Nothaniel",  
28       "age": 20,  
29       "gender": "Female"  
30     },  
31     {  
32       "nim": "2311104030",  
33       "firstname": "Isabel",  
34       "lastname": "Marsha",  
35       "age": 20,  
36       "gender": "Female"  
37     }  
38   ]  
39 }  
40
```

jurnal7_2_2311104037.json

- Berisi data daftar anggota tim (members) dalam format array.
- Setiap anggota memiliki atribut nim, firstname, lastname, age, dan gender.

```
program.cs  
 Windsor | Refactor | Explain  
class Program  
{  
    Windsor | Refactor | Explain | Generate Documentation | X  
    static void Main(string[] args)  
    {  
        TeamMembers2311104037 team = new TeamMembers2311104037();  
        team.ReadJSON();  
    }  
}
```

File Program.cs

- program utama yang membuat objek TeamMembers2311104037
- Memanggil method ReadJSON() untuk menampilkan daftar anggota tim ke konsol.

```

1 TeamMembers231104037.cs
2 using System;
3 using System.Collections.Generic;
4 using System.Linq;
5 using System.Text.Json;
6
7 Window1 Refactor | Update
8 public class TeamMember
9 {
10     public string nim { get; set; }
11     public string firstname { get; set; }
12     public string lastname { get; set; }
13     public int age { get; set; }
14     public string gender { get; set; }
15 }
16
17 Window1 Refactor | Update
18 public class TeamList
19 {
20     public List<TeamMember> members { get; set; }
21 }
22
23 Window1 Refactor | Update
24 public class TeamMembers231104037
25 {
26     Window1 Refactor | Update | Generate Documentation |>
27     public void ReadJSON()
28     {
29         string filePath = "jurnal7_2_231104037.json";
30         if (!File.Exists(filePath))
31         {
32             Console.WriteLine("File tidak ditemukan.");
33             return;
34         }
35         string jsonContent = File.ReadAllText(filePath);
36         TeamList team = JsonSerializer.Deserialize<TeamList>(jsonContent);
37
38         Console.WriteLine("Team member list:");
39         foreach (var member in team.members)
40         {
41             Console.WriteLine($"{member.nim} {member.firstname} {member.lastname} ({member.age} {member.gender})");
42         }
43     }
44 }

```

File TeamMembers231104037.cs

- Memiliki method ReadJSON() untuk membaca file JSON jurnal7_2_231104037.json.
- Melakukan pengecekan apakah file ada, jika tidak ada maka tampilkan pesan error.
- Membaca isi file, lalu mendeserialisasi menjadi objek TeamList.
- Menampilkan data setiap anggota tim ke konsol dengan format:
nim firstname lastname (age gender)

Contoh:

2311104037 Resita Purwanto (20 Female)