

Nama: Marvel Sanjaya Setiawan

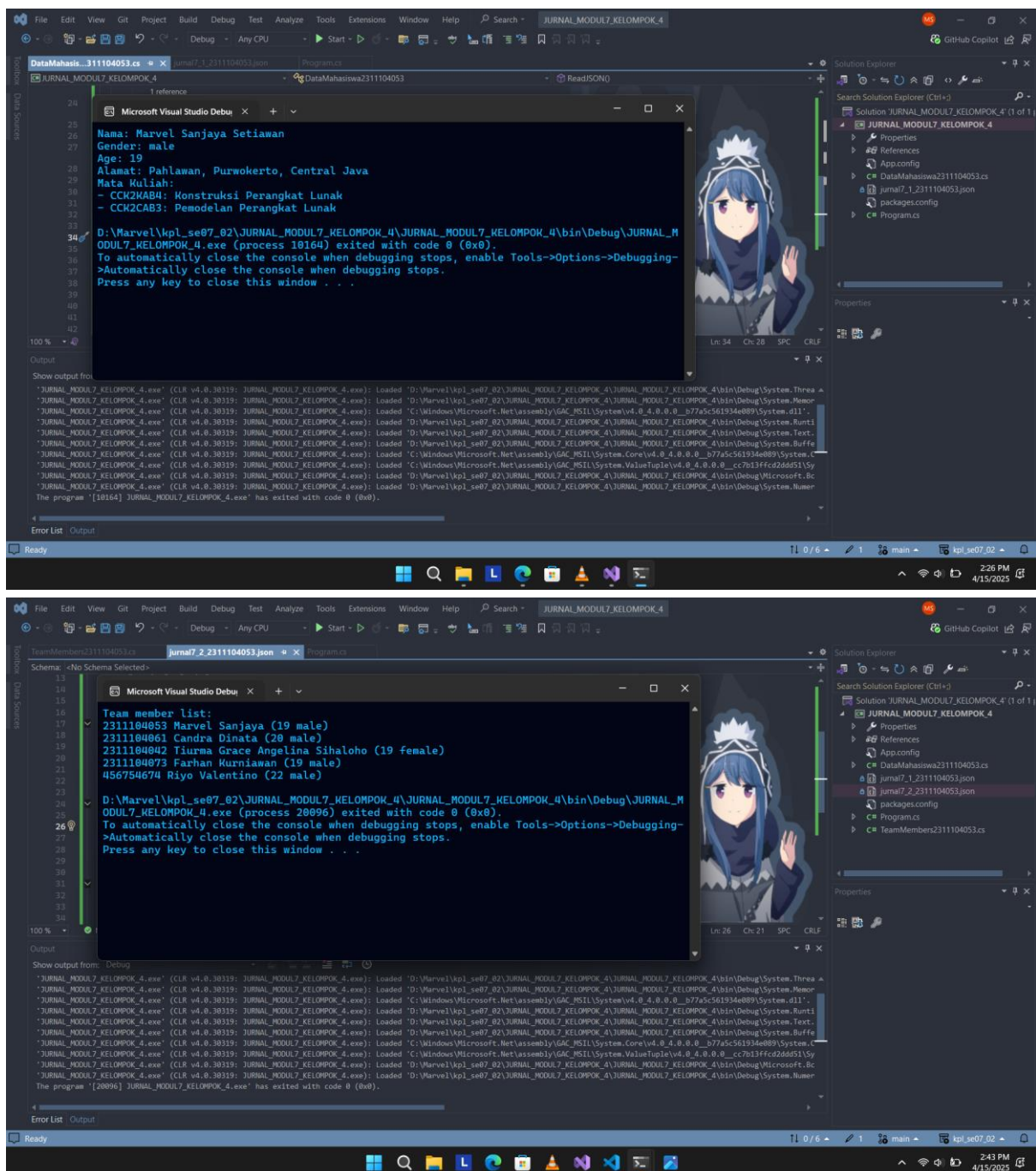
NIM: 2311104053

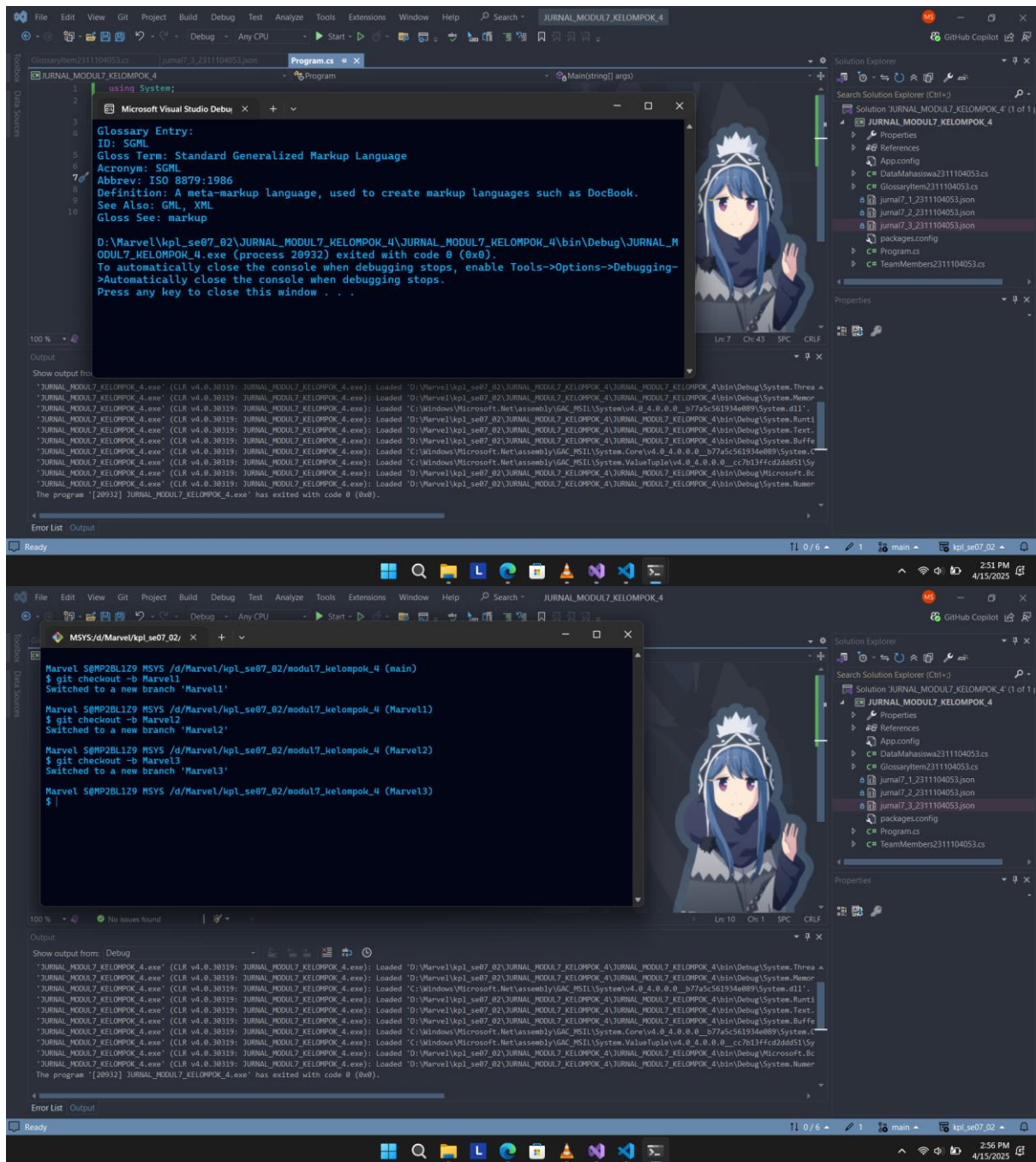
Kelas: SE07-02

JURNAL MODUL 7

Link github: https://github.com/tiurmagrace/modul7_kelompok_4

Hasil run:





jurnal1_2311104053.json

```

1. {
2.     "firstName": "Marvel",
3.     "lastName": "Sanjaya Setiawan",
4.     "gender": "male",
5.     "age": "19",
6.     "address": {
7.         "streetAddress": "Pahlawan",
8.         "city": "Purwokerto",
9.         "state": "Central Java"
10.    },
11.     "courses": [
12.         {
13.             "code": "CCK2KAB4",
14.             "name": "Konstruksi Perangkat Lunak"

```

```

15.     },
16.     {
17.         "code": "CCK2CAB3",
18.         "name": "Pemodelan Perangkat Lunak"
19.     }
20. ]
21. }
22.

```

jurnal2_2311104053.json

```

1.  {
2.      "members": [
3.          {
4.              "firstName": "Marvel",
5.              "lastName": "Sanjaya",
6.              "gender": "male",
7.              "age": 19,
8.              "nim": "2311104053"
9.          },
10.         {
11.             "firstName": "Candra",
12.             "lastName": "Dinata",
13.             "gender": "male",
14.             "age": 20,
15.             "nim": "2311104061"
16.         },
17.         {
18.             "firstName": "Tiurma Grace Angelina",
19.             "lastName": "Sihaloho",
20.             "gender": "female",
21.             "age": 19,
22.             "nim": "2311104042"
23.         },
24.         {
25.             "firstName": "Farhan",
26.             "lastName": "Kurniawan",
27.             "gender": "male",
28.             "age": 19,
29.             "nim": "2311104073"
30.         },
31.         {
32.             "firstName": "Riyo",
33.             "lastName": "Valentino",
34.             "gender": "male",
35.             "age": 22,
36.             "nim": "456754674"
37.         }
38.     ]
39. }
40.

```

jurnal3_2311104053.json

```

1.  {
2.      "glossary": {
3.          "title": "example glossary",
4.          "GlossDiv": {
5.              "title": "S",
6.              "GlossList": {
7.                  "GlossEntry": {
8.                      "ID": "SGML",
9.                      "SortAs": "SGML",
10.                     "GlossTerm": "Standard Generalized Markup Language",
11.                     "Acronym": "SGML",

```

```

12.         "Abbrev": "ISO 8879:1986",
13.         "GlossDef": {
14.             "para": "A meta-markup language, used to create markup languages such as
DocBook.",
15.             "GlossSeeAlso": [ "GML", "XML" ]
16.         },
17.         "GlossSee": "markup"
18.     }
19. }
20. }
21. }
22. }
23.

```

DataMahasiswa2311104053.cs

```

1. using System;
2. using System.IO;
3. using System.Text.Json;
4. using System.Collections.Generic;
5.
6. public class DataMahasiswa2311104053
7. {
8.     public string firstName { get; set; }
9.     public string lastName { get; set; }
10.    public string gender { get; set; }
11.    public string age { get; set; }
12.    public Address address { get; set; }
13.    public List<Course> courses { get; set; }
14.
15.    public class Address
16.    {
17.        public string streetAddress { get; set; }
18.        public string city { get; set; }
19.        public string state { get; set; }
20.    }
21.
22.    public class Course
23.    {
24.        public string code { get; set; }
25.        public string name { get; set; }
26.    }
27.
28.    public static void ReadJSON()
29.    {
30.        string json = File.ReadAllText("jurnal7_1_2311104053.json");
31.        var data = JsonSerializer.Deserialize<DataMahasiswa2311104053>(json);
32.        Console.WriteLine($"Nama: {data.firstName} {data.lastName}");
33.        Console.WriteLine($"Gender: {data.gender}");
34.        Console.WriteLine($"Age: {data.age}");
35.        Console.WriteLine($"Alamat: {data.address.streetAddress}, {data.address.city},
{data.address.state}");
36.        Console.WriteLine("Mata Kuliah:");
37.        foreach (var course in data.courses)
38.        {
39.            Console.WriteLine($"- {course.code}: {course.name}");
40.        }
41.    }
42. }
43.

```

TeamMembers2311104053.cs

```
1. using System;
2. using System.IO;
3. using System.Text.Json;
4. using System.Collections.Generic;
5.
6. public class TeamMembers2311104053
7. {
8.     public List<Member> members { get; set; }
9.
10.    public class Member
11.    {
12.        public string firstName { get; set; }
13.        public string lastName { get; set; }
14.        public string gender { get; set; }
15.        public int age { get; set; }
16.        public string nim { get; set; }
17.    }
18.
19.    public static void ReadJSON()
20.    {
21.        string json = File.ReadAllText("jurnal7_2_2311104053.json");
22.        var team = JsonSerializer.Deserialize<TeamMembers2311104053>(json);
23.        Console.WriteLine("Team member list:");
24.        foreach (var member in team.members)
25.        {
26.            Console.WriteLine($"{member.nim} {member.firstName} {member.lastName}
27.            {member.age} {member.gender}");
28.        }
29.    }
30. }
```

GlosarryItem2311104053.cs

```
1. using System;
2. using System.IO;
3. using System.Text.Json;
4.
5. public class GlossaryItem2311104053
6. {
7.     public Glossary glossary { get; set; }
8.
9.     public class Glossary
10.    {
11.        public string title { get; set; }
12.        public GlossDiv GlossDiv { get; set; }
13.    }
14.
15.    public class GlossDiv
16.    {
17.        public string title { get; set; }
18.        public GlossList GlossList { get; set; }
19.    }
20.
21.    public class GlossList
22.    {
23.        public GlossEntry GlossEntry { get; set; }
24.    }
25.
26.    public class GlossEntry
27.    {
28.        public string ID { get; set; }
29.        public string SortAs { get; set; }
30.        public string GlossTerm { get; set; }
31.        public string Acronym { get; set; }
```

```

32.     public string Abbrev { get; set; }
33.     public GlossDef GlossDef { get; set; }
34.     public string GlossSee { get; set; }
35. }
36.
37. public class GlossDef
38. {
39.     public string para { get; set; }
40.     public string[] GlossSeeAlso { get; set; }
41. }
42.
43. public static void ReadJSON()
44. {
45.     string json = File.ReadAllText("jurnal7_3_2311104053.json");
46.     var data = JsonSerializer.Deserialize<GlossaryItem2311104053>(json);
47.     var entry = data.glossary.GlossDiv.GlossList.GlossEntry;
48.
49.     Console.WriteLine("Glossary Entry:");
50.     Console.WriteLine($"ID: {entry.ID}");
51.     Console.WriteLine($"Gloss Term: {entry.GlossTerm}");
52.     Console.WriteLine($"Acronym: {entry.Acronym}");
53.     Console.WriteLine($"Abbrev: {entry.Abbrev}");
54.     Console.WriteLine($"Definition: {entry.GlossDef.para}");
55.     Console.WriteLine("See Also: " + string.Join(", ", entry.GlossDef.GlossSeeAlso));
56.     Console.WriteLine($"Gloss See: {entry.GlossSee}");
57. }
58. }
59.

```

Program.cs

```

1. using System;
2.
3. class Program
4. {
5.     static void Main(string[] args)
6.     {
7.         DataMahasiswa2311104053.ReadJSON();
8.         TeamMembers2311104053.ReadJSON();
9.         GlossaryItem2311104053.ReadJSON();
10.    }
11. }
12.

```

Penjelasan codingan:

1. JSON Files

- jurnal1_2311104053.json → Data mahasiswa termasuk nama, alamat, dan mata kuliah yang diambil.
- jurnal2_2311104053.json → Daftar anggota tim dengan informasi nama, NIM, gender, dan usia.
- jurnal3_2311104053.json → Struktur glossary dengan istilah dan definisi terkait markup language.

2. DataMahasiswa2311104053.cs

- Membaca jurnal1_2311104053.json dan menampilkan informasi mahasiswa seperti nama, gender, usia, alamat, dan daftar mata kuliah.

3. TeamMembers2311104053.cs
 - Membaca jurnal2_2311104053.json dan menampilkan daftar anggota tim beserta NIM, nama, usia, dan gender.
4. GlossaryItem2311104053.cs
 - Membaca jurnal3_2311104053.json dan menampilkan informasi glossary, seperti ID, istilah, definisi, dan referensi terkait.
5. Program.cs
 - Memanggil metode ReadJSON() dari setiap kelas untuk membaca dan menampilkan data yang sesuai.