Haza Zaidan Zidna Fann

2311104056

SISE 0702

Jurnal modul 7

https://github.com/hazazaidan/KPL_Haza_Zaidan_Zidna_Fann_2311104056_SISE0702

Jurnal_1_2311104056.json

```json
{
  "FirstName": "Haza",
  "LastName": "Fann",
  "Gender": "Male",
  "Age": 19,
  "Address": {
    "StreetAddress": "Pegandon",
    "City": "Kendal",
    "State": "Central Java"
  },
  "Courses": [
    {
      "Code": "CRI2C4",
      "Name": "Konstruksi Perangkat Lunak"
    },
    {
      "Code": "CRI2C3",
      "Name": "Pemodelan Perangkat Lunak"
    }
  ]
}
```

Jurnal_2_2311104056.json

```json
{
  "members": [
    {
      "firstName": "Haza",
      "lastName": "Fann",
      "gender": "male",
      "age": 19,
      "nim": "2311104056"
    },
    {
      "firstName": "Jauhar",
      "lastName": "Zuhair",
      "gender": "male",
      "age": 21,
      "nim": "2311104072"
    },
    {
      "firstName": "Pradana",
      "lastName": "Pangestu",
      "gender": "male",
      "age": 20,
      "nim": "2311104079"
    },
    {
      "firstName": "Izzaty",
      "lastName": "barus",
      "gender": "female",
      "age": 20,
      "nim": "2311104052"
    },
    {
      "firstName": "Rizaldy",
      "lastName": "Rachman",
      "gender": "male",
      "age": 20,
      "nim": "2311104051"
    }
  ]
}
```

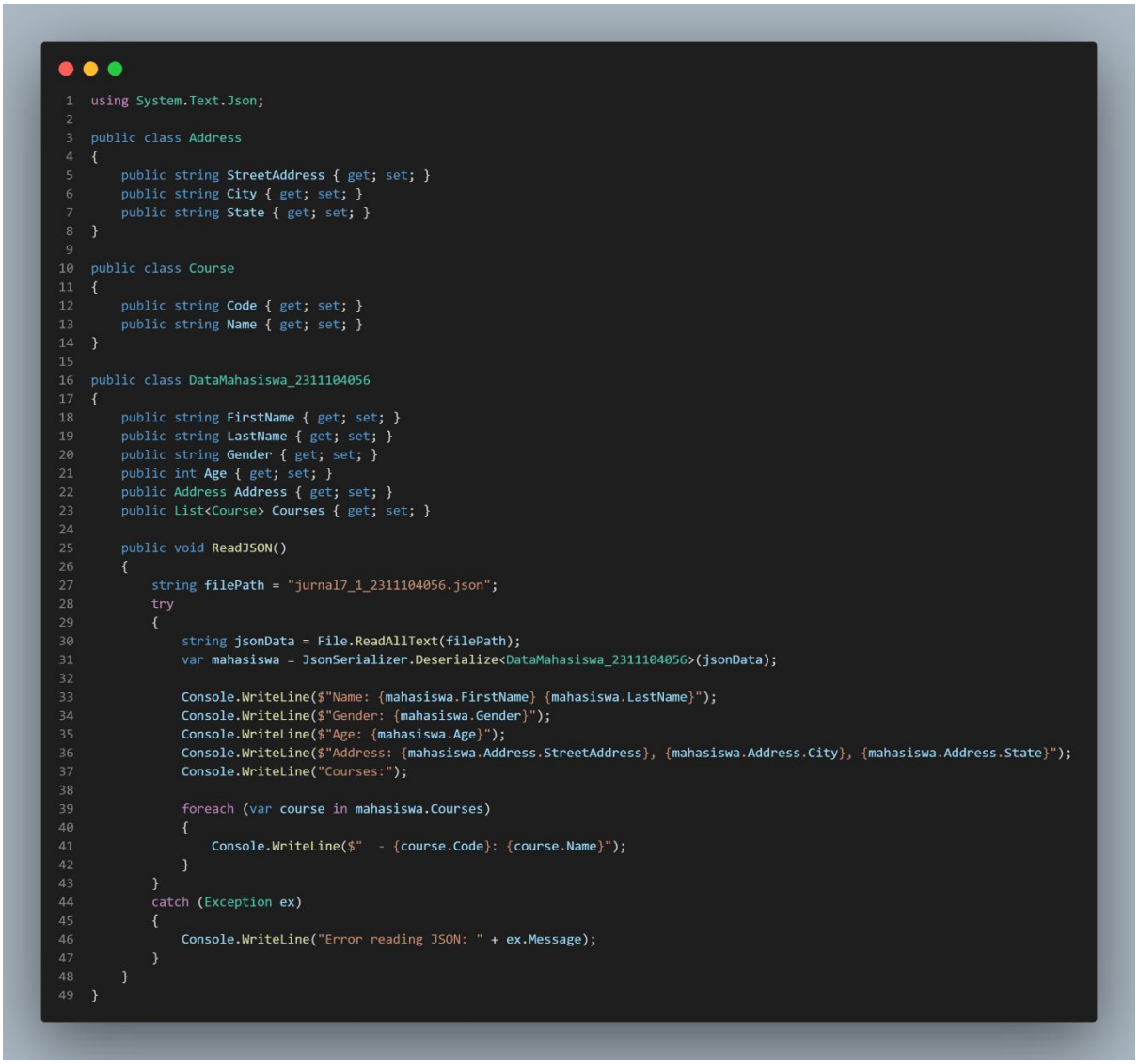
Jurnal_3_2311104056.json

```json
{
  "GlossDiv": {
    "GlossList": {
      "GlossEntry": {
        "ID": "SGML",
        "SortAs": "SGML",
        "GlossTerm": "Standard Generalized Markup Language",
        "Acronym": "SGML",
        "Abbrev": "ISO 8879:1986",
        "Title": "Glossary Entry",
        "GlossSee": "markup"
      }
    }
  }
}
```

TeamMembers_2311104056.cs

```cs
using System;
using System.Collections.Generic;
using System.IO;
using System.Text.Json;

public class TeamMembers2311104056
{
    public class Member
    {
        public string firstName { get; set; }
        public string lastName { get; set; }
        public string gender { get; set; }
        public int age { get; set; }
        public string nim { get; set; }
    }

    public class MembersData
    {
        public List<Member> members { get; set; }
    }

    public static void ReadJSON()
    {
        try
        {
            string filePath = "jurnal7_2_2311104056.json";
            string jsonString = File.ReadAllText(filePath);

            MembersData data = JsonSerializer.Deserialize<MembersData>(jsonString);

            Console.WriteLine("Team member list:");
            foreach (var m in data.members)
            {
                Console.WriteLine($"{m.nim} {m.firstName} {m.lastName} ({m.age} {m.gender})");
            }
        }
        catch (Exception ex)
        {
            Console.WriteLine("Gagal : " + ex.Message);
        }

        Console.ReadLine();
    }
}
```

DataMahasiswa_2311104056.cs

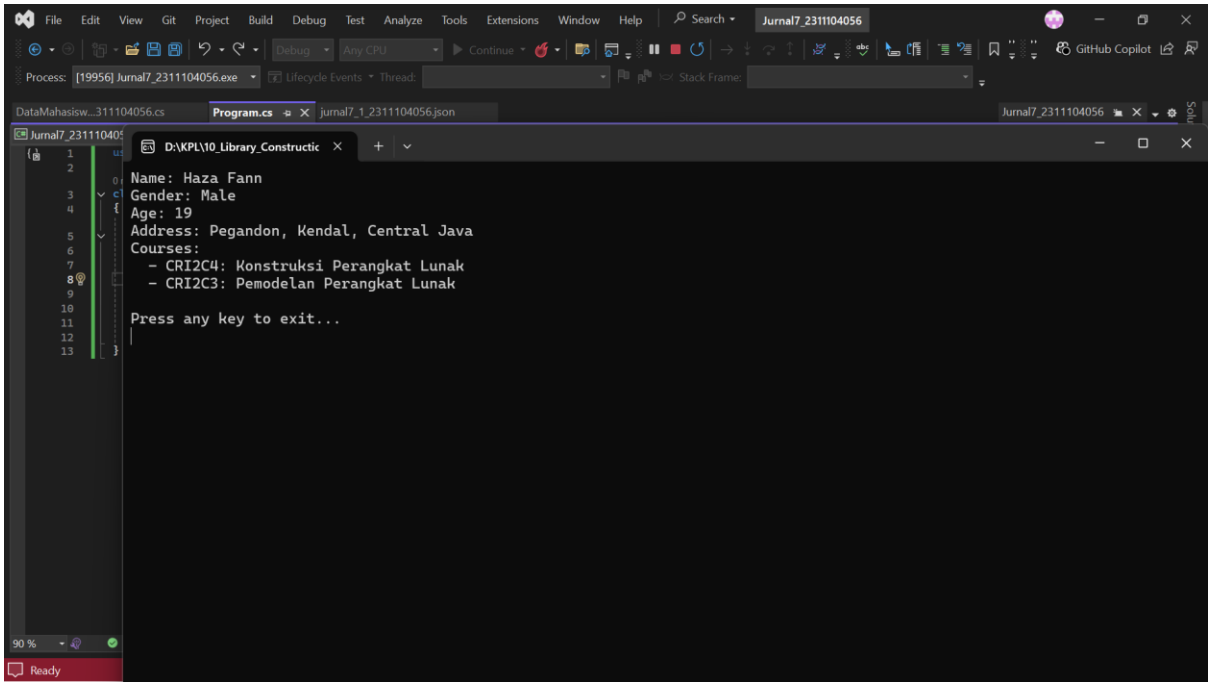


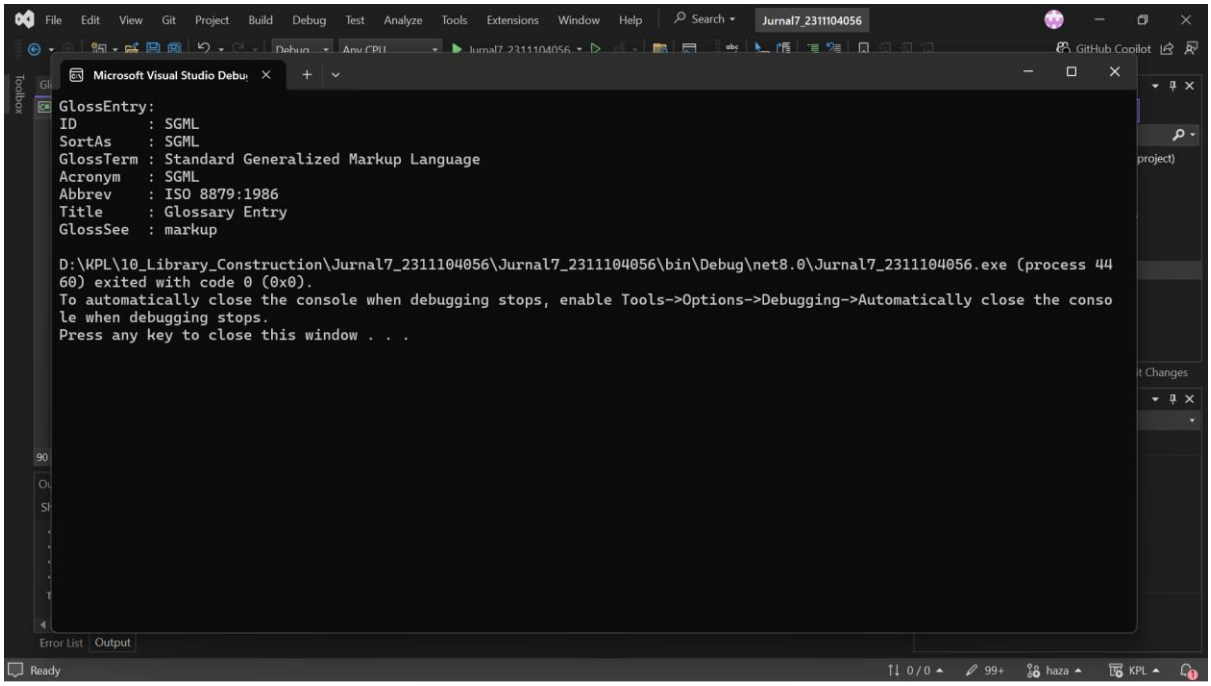
```cs
using System.Text.Json;

public class Address
{
    public string StreetAddress { get; set; }
    public string City { get; set; }
    public string State { get; set; }
}

public class Course
{
    public string Code { get; set; }
    public string Name { get; set; }
}

public class DataMahasiswa_2311104056
{
    public string FirstName { get; set; }
    public string LastName { get; set; }
    public string Gender { get; set; }
    public int Age { get; set; }
    public Address Address { get; set; }
    public List<Course> Courses { get; set; }

    public void ReadJSON()
    {
        string filePath = "jurnal7_1_2311104056.json";
        try
        {
            string jsonData = File.ReadAllText(filePath);
            var mahasiswa = JsonSerializer.Deserialize<DataMahasiswa_2311104056>(jsonData);

            Console.WriteLine($"Name: {mahasiswa.FirstName} {mahasiswa.LastName}");
            Console.WriteLine($"Gender: {mahasiswa.Gender}");
            Console.WriteLine($"Age: {mahasiswa.Age}");
            Console.WriteLine($"Address: {mahasiswa.Address.StreetAddress}, {mahasiswa.Address.City}, {mahasiswa.Address.State}");
            Console.WriteLine("Courses:");

            foreach (var course in mahasiswa.Courses)
            {
                Console.WriteLine($"  - {course.Code}: {course.Name}");
            }
        }
        catch (Exception ex)
        {
            Console.WriteLine("Error reading JSON: " + ex.Message);
        }
    }
}
```

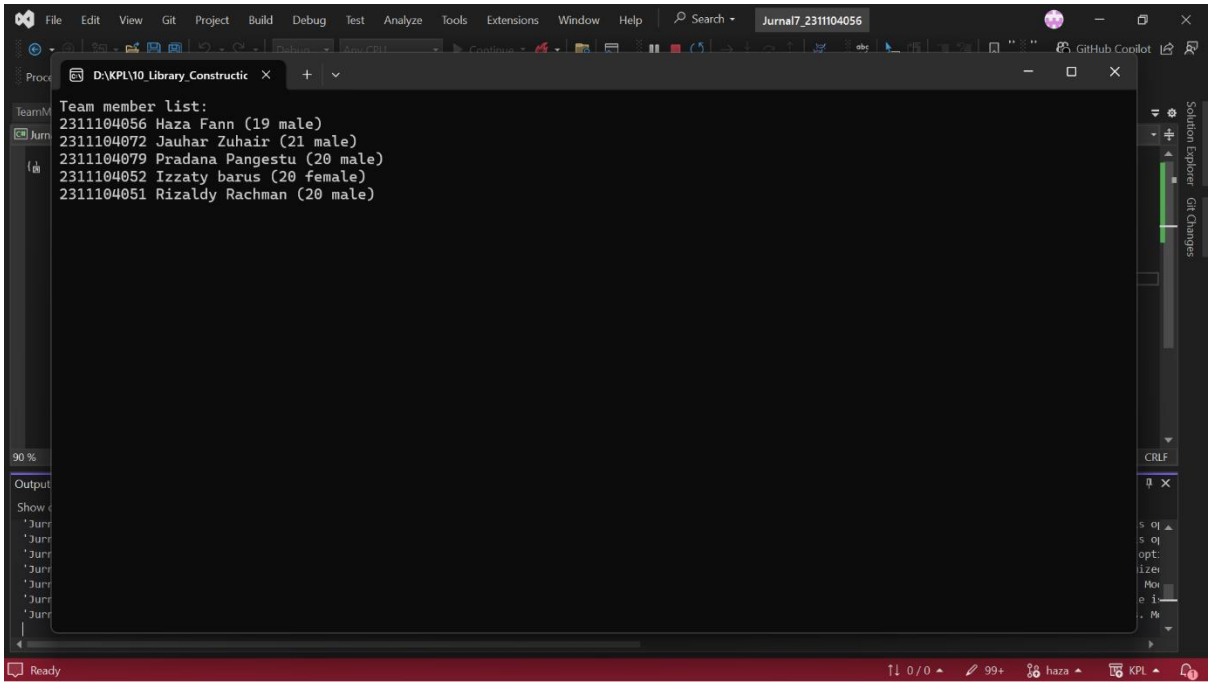
GlossaryItem_2311104056.cs

```cs
using System;
using System.IO;
using System.Text.Json;

public class GlossEntry
{
    public string ID { get; set; }
    public string SortAs { get; set; }
    public string GlossTerm { get; set; }
    public string Acronym { get; set; }
    public string Abbrev { get; set; }
    public string Title { get; set; }
    public string GlossSee { get; set; }
}

public class GlossList
{
    public GlossEntry GlossEntry { get; set; }
}

public class GlossDiv
{
    public GlossList GlossList { get; set; }
}

public class GlossRoot
{
    public GlossDiv GlossDiv { get; set; }
}

public class GlossaryItem2311104056
{
    public static void ReadJSON()
    {
        string json = File.ReadAllText("jurnal7_3_2311104056.json");
        GlossRoot root = JsonSerializer.Deserialize<GlossRoot>(json);
        GlossEntry entry = root.GlossDiv.GlossList.GlossEntry;

        Console.WriteLine("GlossEntry:");
        Console.WriteLine($"ID        : {entry.ID}");
        Console.WriteLine($"SortAs    : {entry.SortAs}");
        Console.WriteLine($"GlossTerm : {entry.GlossTerm}");
        Console.WriteLine($"Acronym   : {entry.Acronym}");
        Console.WriteLine($"Abbrev    : {entry.Abbrev}");
        Console.WriteLine($"Title     : {entry.Title}");
        Console.WriteLine($"GlossSee  : {entry.GlossSee}");
    }
}
```

Hasil Run:


Name: Haza Fann
Gender: Male
Age: 19
Address: Pegandon, Kendal, Central Java
Courses:
- CRI2C4: Konstruksi Perangkat Lunak
- CRI2C3: Pemodelan Perangkat Lunak
Press any key to exit...


GlossEntry:
ID : SGML
SortAs : SGML
GlossTerm : Standard Generalized Markup Language
Acronym : SGML
Abbrev : ISO 8879:1986
Title : Glossary Entry
GlossSee : markup
D:\KPL\10_Library_Construction\Jurnal7_2311104056\Jurnal7_2311104056\bin\Debug\net8.0\Jurnal7_2311104056.exe (process 4460) 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 . . .



File JSON (Jurnal_1, Jurnal_2, Jurnal_3)
Berisi data yang kemungkinan digunakan sebagai input atau data awal untuk program. Masing-masing JSON menyimpan struktur data tertentu, misalnya daftar anggota tim atau data mahasiswa.

File C# (.cs)

- **TeamMembers_2311104056.cs**: Mendefinisikan kelas yang menangani data anggota tim (seperti nama, peran).
- **DataMahasiswa_2311104056.cs**: Berisi representasi data mahasiswa, seperti NIM, nama, dan program studi.
- **GlossaryItem_2311104056.cs**: Kemungkinan berisi struktur untuk item glosarium, berisi istilah dan definisinya.

Hasil Run
Output yang dihasilkan dari eksekusi program C# dengan memanfaatkan data dari file JSON di atas. Output ini mungkin berupa:

- Daftar anggota tim yang berhasil dibaca.
- Data mahasiswa yang diproses.
- Glosarium yang di-load dan ditampilkan.
  Semua ini menunjukkan keberhasilan parsing file JSON dan menampilkannya dalam format yang sesuai di aplikasi.