using System.Text.Json;

using System;

using System.Collections.Generic;

using System.IO;

using Newtonsoft.Json;

class DataMahasiswa1302210017

{

public Nama Nama { get; set; }

public string Nim { get; set; }

public string Fakultas { get; set; }

public DataMahasiswa1302210017()

{

Nama = new Nama();

}

public static DataMahasiswa1302210017 ReadJSON(string filePath)

{

try

{

// Read the JSON file

string jsonString = File.ReadAllText(filePath);

// Deserialize the JSON string to a DataMahasiswa object

DataMahasiswa1302210017 mahasiswa = System.Text.Json.JsonSerializer.Deserialize<DataMahasiswa1302210017>(jsonString);

// Print the deserialized object

Console.WriteLine("Nama " + mahasiswa.Nama.depan + mahasiswa.Nama.belakang + "dengan nim " + mahasiswa.Nim + "dari fakultas" + mahasiswa.Fakultas);

return mahasiswa;

}

catch (Exception ex)

{

Console.WriteLine($"Error reading JSON file: {ex.Message}");

return null;

}

}

}

class Nama

{

public string depan { get; set; }

public string belakang { get; set; }

}

public class KuliahMahasiswa1302210017

{

public static void ReadJSON()

{

string jsonFilePath = @"C:\Users\zuhay\OneDrive\Dokumen\Sylvana\Semester 4\Kontruksi Perangkat Lunak\week 7\TPMOD7\_1302210017/TPMOD7\_1302210017.json";

string jsonContent = File.ReadAllText(jsonFilePath);

var courses = JsonConvert.DeserializeObject<Dictionary<string, List<Dictionary<string, string>>>>(jsonContent)["courses"];

Console.WriteLine("Daftar mata kuliah yang diambil:");

foreach (var course in courses)

{

Console.WriteLine($"MK {course["code"]} - {course["name"]}");

}

}

}

class Program

{

static void Main(string[] args)

{

// Path to the JSON file

string filePath = @"C:\Users\zuhay\OneDrive\Dokumen\Sylvana\Semester 4\Kontruksi Perangkat Lunak\week 7\TPMOD7\_1302210017\TPMOD7\_1302210017.json";

// Read the JSON file and deserialize it to a DataMahasiswa object

DataMahasiswa1302210017 mahasiswa = DataMahasiswa1302210017.ReadJSON(filePath);

KuliahMahasiswa1302210017.ReadJSON();

}

}