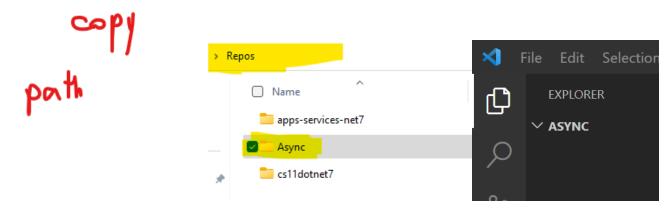
HW #5. Async and Await

Due Date: Listed on Canvas (this is theoretical assignment / essay. Should be submitted all in 1 PDF)

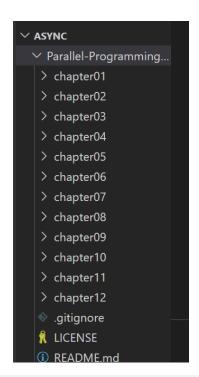
Create a new folder/directory, open it in VSC and clone the code of the book on Parallel Programming as follows:



Choose Terminal -> New Terminal, run the command below

git clone https://github.com/PacktPublishing/Parallel-Programming-and-Concurrency-with-C-sharp-10-and-NET-6

Observe the result:



TASK 1. Provide screenshots proving that part 1 was completed.

Register if not registered, and open ChatGPT website: https://chat.openai.com/chat . Ask it to add comments to all runnable C# code from Chapter 2, one by one.

Example below:

```
can you add comments to this code? namespace ContactListLocking
{
    public class ContactListManager
    {
        private readonly List<Contact> contacts;
        private readonly ReaderWriterLockSlim contactLock = new ReaderWriterLockSlim();

    public ContactListManager(List<Contact> initialContacts)
    {
        contacts = initialContacts;
    }

    public void AddContact(Contact newContact)
    {
        try
        {
            contactLock.EnterWriteLcccontacts.Add(newContact),
        }

        Regenerate response
```

```
Sure, here's the code with comments added to explain what each part does:

csharp

csharp

copy code

namespace ContactListLocking
{

public class ContactListManager

{

// The list of contacts that this manager will handle.

private readonly List<Contact> contacts;

// The lock used to synchronize access to the contacts list.

private readonly ReaderWriterLockSlim contactLock = new ReaderWriterLockSlim

// Constructor that initializes the list of contacts.

public ContactListManager(List<Contact> initialContacts)

{

contacts = initialContacts;

}

// Adds a new contact to the list of contacts.

public void AddContact(Contact newContact)

{
```

TASK 2. Make the ChatGPT generate comments for your code. Read through the commented programs to make sure all logic is transparent and clear. If some explanation is missing /needed, request for more clarification. Run the code. Provide Source code and output fully visible. Your source code should demonstrate the comments generated by chat GPT and run successfully. Explain in your own words what programs from Chapter 2 do and what you learn from them.

TASK 3. Do the same as in 2 with all runnable examples from Chapter 3.

TASK 4. Do the same as in 2 with all runnable examples from Chapter 5.

TASK 5. Do the same as in 2 with all runnable examples from Chapter 6.

TASK 6. Do the same as in 2 with all runnable examples from Chapter 8.

TASK 7. Answer the following questions:

- a) Did ChatGPT by adding comments to your programs help you to understand the code? Yes/No
- b) Was your experience with ChatGPT smooth/plesent? Yes/No
- c) Do you think moving forward you might do this for other code that is new and hard to comprehend? Yes/No