Concurrent Programming

Pass Task 02: Hello "Active Object" World

Overview

As a first step, create the classic "Hello World" program with a concurrent twist — with a little more structure.

Pass Task 02 — Submission Details and Assessment Criteria

You must submit the following files to Doubtfire:

- Hello World source code (HelloWorld.cs)
- Active object class (ActiveObject.cs)
- Message Writer object class (MessageWriter.cs)
- Screenshot of the Terminal showing output from program.

Instructions

Active Objects have their own "lifeline" by encapsulating a thread.

- Create a class library project
 - Use a namespace that contains your name or student id. Eg: Acain.Concurrent.Utils
 - Add an Active Object class:
 - Is abstract
 - Is given a name when created assign it to the object's Thread.
 - Has a Thread that is created when it is constructed.
 - Provides the ability to Start the Active Object which starts its Thread.
 - When started, it executes its protected abstract Run method.
 - Has XML documentation... that is useful!
- Create a program that uses the class library (in a different namespace/project)
 - Create a Message Writer Active Object class
 - Assign it a message when created (in the constructor).
 - Override Run and have it infinitely print its message to the Terminal.
 - Create a Hello World program that uses your Message Writer to output "Hello World" messages to the Terminal.



