**C# Test**

Imagine you are hired by a gaming arena, where they have multiple game consoles.

Your project is to develop a Live Score System.

**The Main board**

The Application is a main board that list Scores from every game console mentioning their current status (Running / Stopped). If running, show the current score and if stopped, show the last score. If a new game starts again, it will reset the score and status.

**The Console(s)**

Every console has its own Number and Code and optional Player Name. When any console starts, it immediately starts tracking scores from the console. There will be option to increment the score.

There are a few new updated consoles and a few of them are old classic consoles.

The **new consoles** can send request to the Main board to update the score.

The **old consoles** can only expose data. The main board pulls out data from them to display scores. They have an endpoint which provides current score and status.

**Task**

Your task is to develop a C# application that can accept data from New consoles and also be able to pull data from old consoles. Every console register with the Main Application as soon as it starts.

The data stored or passed can be in any format (json,xml,text) – you can choose which one to use.

The goal is to ensure the Scores are always up to date on the Main Board

You can use any design patterns or approaches using C#,LINQ,ADO.NET etc. You will be evaluated on the following

1. Logic for receiving and pulling the data.
2. How fast the application can process the data (keeping the Main Board updated if there are 100s of consoles)
3. In case of failure, how can it recover the scores.
4. Conceptual Implementation of the scoring.
5. Code Quality.

**Input**

We should be able to start the main board. It should start the Main Score board

We should be able to start multiple instances of consoles (Old, New) passed as cmd params

Increase score on the console as if a real player is playing

**Output**

The Main board should start showing the following information from the console as soon as the console starts.

Sorted by score

1. Console Number
2. Score
3. Player Name(optional)
4. Status

**Important Instructions**

* It should be simple to run all applications, it should not require installing any additional packages or additional installations of databases etc
* We expect 3 files from you
* SourceCode.Zip (should contain code of both the Main board and the Gaming console)
* Bin.zip (should have executables for both Main board and Gaming Console)
* Readme.txt – steps to run the application