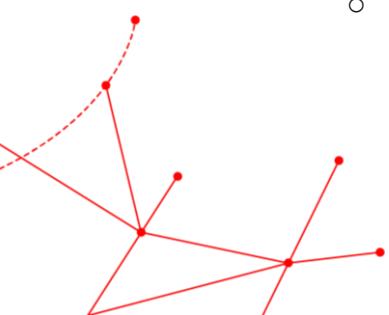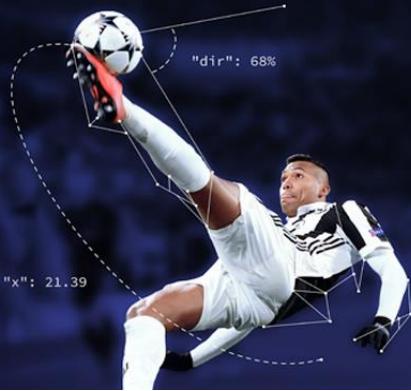# CODING EXCERCISE

Instructions:

Please provide the implementation of the Football World Cup Score Board as a **simple** library.

Guidelines:

- Keep it **simple**. Stick to the requirements and try to implement the simplest solution you can possibly think of that works and don't forget about edge cases.

- Use an in-memory store solution (for example just use collections to store the information you might require).

- We are **NOT** looking for a REST API, a Web Service or Microservice. Just a **simple implementation.**

- **Focus on Quality. Use Test-Driven Development (TDD),** pay attention to OO design, Clean Code and adherence to SOLID principles.

- **Approach**. Code the solution according to your standards. **Please share your solution with a link to a source control repository** (e.g. GitHub, GitLab, BitBucket) as we would like you to see your progress (your commit history is important)

- Add a README.md file where you can make notes of any assumption or things you would like to mention to us about your solution.

- If the implementation is in a *frontend* language, then it must follow all of the above guidelines and additionally you should apply the suggestions below:

  - **If it is written it in a specific UI framework or library** then we would suggest writing the simplest component/s to serve the described functionality. Please don't spend time making it look good.

  - **If it is written in plain JavaScript** then we would suggest implementing the solution as a simple service or module.

Football World Cup Score Board:

You are working on a sports data company. And we would like you to develop a new Live Football World Cup Score Board that shows matches and scores.

The boards support the following operations:

1. **Start a game.** When a game starts, it should capture (being initial score 0-0)

   a. Home team
   b. Away Team

2. **Finish a game**. It will remove a match from the scoreboard.

3. **Update score**. Receiving the pair score; home team score and away team score updates a game score

4. **Get a summary of games by total score**. Those games with the same total score will be returned ordered by the most recently added to our system.

As an example, being the current data in the system:

   a. Mexico - Canada: 0 – 5
   b. Spain - Brazil: 10 – 2
   c. Germany - France: 2 – 2
   d. Uruguay - Italy: 6 – 6
   e. Argentina - Australia: 3 - 1

The summary would provide with the following information:

   1. Uruguay 6 - Italy 6
   2. Spain 10 - Brazil 2
   3. Mexico 0 - Canada 5
   4. Argentina 3 - Australia 1
   5. Germany 2 - France 2

Thank you for your time to complete the exercise!