CODING EXERCISE

Instructions:

Please provide an implementation of the Football World Cup Scoreboard as a simple library.

Guidelines:

- Keep it simple. Stick to the requirements and implement the simplest solution that works, considering edge cases.
- Use an in-memory store (e.g., collections) for any required data storage.
- This is not a REST API or microservice: just a standalone library.
- Focus on quality: apply Test-Driven Development (TDD), clean OO design, and adhere to SOLID principles.
- Share your solution via source control (e.g., GitHub) so we can see your commit history.
- Include a README.md with any assumptions or notes about your solution.
- For frontend implementations in a UI framework, provide minimal components; for plain JavaScript, implement as a simple module.

Football World Cup Scoreboard:

You are tasked with developing a live Football World Cup Scoreboard that tracks matches and scores.

Supported operations:

- 1. Start a game. When a game starts, record (initial score 0–0):
 - Home team
 - Away team
- 2. Finish a game. Remove a match from the scoreboard.
- 3. Update score. Given new home and away scores, update the match score.
- 4. Get a summary of games by total score. Return games ordered by descending total score; for ties, list the most recently added first.

Example state:

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

Summary output:

- 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

Deliverables:

- Source code implementing the library
- Unit and integration tests demonstrating functionality
- README.md with setup, usage instructions, and any assumptions