Include your full name and your partner’s full name at the top of each file, using a Java Javadoc   
/\*\* @author \*/ tag (for example: /\*\* @author Paul Mills and Jason Wilder \*/).

**Session 7 Lab: Designing a sports league program**

In this lab you will draft an outline for a program that supports players, teams and a league. It doesn’t matter what the sport or league is (Hockey, Soccer, Baseball, Curling, etc.) You decide. It must be a sport where each team consists of multiple players (no less than five) multiple teams, and is one league.

We are practicing our design skills here doing some of the preparation needed before any code is written. Take the mindset that you will be coming back to a customer with a proposal.

**Questions you must consider:**

* For players:
  1. What attributes does a player have?
  2. What fields would be required?
  3. What constructors are required to create players?
  4. What validations are required?
  5. What functions does a player perform?
* For teams:
  1. Same as above pertaining to teams
* For the league:
  1. Same as above for the league

In designing your program you need to consider the topics we covered today, which include RDD, Cohesion, Coupling, Duplication, etc..

**Additional things you should consider:**

* What are the relationships between the three classes? How do teams track players and how does the league track teams?
* Is the design reusable?
* Is the design extendable?
* Clarity. It should be clear to the Customer what you have designed. Remember, they won’t be programmers so you have to be reasonably detailed in your descriptions and explanations.

**Deliverable:**

* A text-based document that clearly breaks things down class by class. Bullet points are fine. You’re writing a program outline not an essay.
* This exercise is about thinking things through before you write the code
* Write a simple jUnit test for some of the class features, and pass your own tests.
* Do this lab with your partner. Create the identical code as your partner, and show your instructor before the start of the next class. Keep these papers and bring them to the final exam, to get your marks:
* Instructor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_