

Problem 1

Square
<div>- width: double</div>
<div>Square() Square(width: double) + getArea(): double + getPerimeter(): double</div>

Problem 2

Bond
<div>- coupon : double - payments : int - interest : double - valueMaturity : double</div>
<div>Bond() Bond(coupon: double, payments: int, interest: double, valueMaturity: double) + getCoupon(): double + setCoupon(coupon: double) + getPayments(): int + setPayments(payments: int) + getInterest(): double + setInterest(interest: double) + getValueMaturity(): double + setValueMaturity(valueMaturity: double) + getPrice(): double</div>

Problem 3

Player
<div>- player: String - goals: int - team: String</div>
<div>Player() Player(name: String, goals : int, team : String) + setName(player: String) + setTeam(team: String) + setGoals(goals: int) + getName(): String + getTeam(): String + getGoals(): int + toString(): String</div>

Goal
<div>- minute: int - player: Player</div>
<div>Goal() Goal(min: int, p: Player) + getMinute(): int + getPlayer(): Player + setMinute(minute: int) + setPlayer(player: Player) + toString(): String</div>

SoccerMatch
<div>startTime: Date endTime: Date whereabouts: String home: String visitor: String homePlayers: Player[11] visitorPlayers: Player[11] homeGoals: Goal[10] visitorGoals: Goal[10] homePlayerCounter: int visitorPlayerCounter: int homeGoalCounter: int visitorGoalCounter: int</div>
<div>SoccerMatch() SoccerMatch(st: Date, et: Date, wa: String, ho: String, vi: String) + homePlayers(p: Player) + visitorPlayers(p: Player) + homeGoals(g: Goal) + visitorGoals(g: Goal) + getHomeGoals(): int[] + getVisitorGoals(): int[] + getWinner(): String</div>