PSPEC PSEUDOCODE

VARIABLES:
- pair: string
- maxBars: integer
- rrRatio: float
- maLength: integer
- pip_size: float

INITIALIZATION:
- wins[]: array
- losses[]: array
- pnls[]: array
- yearNow: integer = tahun saat ini
- entryPrice, stopLoss, takeProfit: float = NA
- orderActive: boolean = false
- isBuy: boolean = true
- signalBar: integer = NA
- entryLabel, slLabel, tpLabel: label = NA

FUNGSI UTAMA:
SETUP:
   pip_size = tentukan berdasarkan pair
   ma = simple_moving_average(close, maLength)
   trendBull = close > ma
   trendBear = close < ma

SIGNAL DETECTION:
   isInsideBar = (high[1] < high[2]) AND (low[1] > low[2])
   isValidSignal = isInsideBar

   motherHigh = high[2]
   motherLow = low[2]

   // Hitung level trading
   buyEntry = motherHigh + pip_size
   buySL = motherLow
   buyTP = buyEntry + (buyEntry - buySL) * rrRatio

   sellEntry = motherLow - pip_size
   sellSL = motherHigh
   sellTP = sellEntry - (sellSL - sellEntry) * rrRatio

RESET TAHUNAN:

IF tahun != yearNow THEN
    reset arrays wins, losses, pnls ke 0
    yearNow = tahun saat ini

MANAJEMEN SINYAL:
  // Cek expired signal
  IF NOT orderActive AND entryPrice != NA AND (bar_index - signalBar >= maxBars) THEN
    hapus semua label
    reset semua variabel trading
    tampilkan label "Signal Expired"

  // Cek failed breakout
  failedBreakoutBuy = NOT orderActive AND isBuy AND entryPrice != NA AND low <= buySL
  failedBreakoutSell = NOT orderActive AND NOT isBuy AND entryPrice != NA AND high >= sellSL

  IF failedBreakoutBuy OR failedBreakoutSell THEN
    hapus semua label
    reset semua variabel trading
    tampilkan label "FB"

MANAJEMEN ORDER:
  // Entry triggered
  entryTriggeredBuy = NOT orderActive AND isBuy AND entryPrice != NA AND high >= (entryPrice - pip_size * 0.1)
  entryTriggeredSell = NOT orderActive AND NOT isBuy AND entryPrice != NA AND low <= (entryPrice + pip_size * 0.1)

  IF entryTriggeredBuy OR entryTriggeredSell THEN
    orderActive = true
    tampilkan label "ET"

  // SL/TP hit
  slHit = orderActive AND ((isBuy AND low <= stopLoss) OR (NOT isBuy AND high >= stopLoss))
  tpHit = orderActive AND ((isBuy AND high >= takeProfit) OR (NOT isBuy AND low <= takeProfit))

  IF slHit OR tpHit THEN
    monthIdx = bulan saat ini - 1

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        IF tpHit THEN
            wins[monthIdx] += 1
            profitPts = hitung profit dalam pip
            pnls[monthIdx] += profitPts
        ELSE IF slHit THEN
            losses[monthIdx] += 1
            lossPts = hitung loss dalam pip
            pnls[monthIdx] -= lossPts

        tampilkan label "SL" atau "TP"
        reset semua variabel trading
        hapus semua label

GENERATE SINYAL BARU:
    canSignalBuy = NOT orderActive AND (entryPrice == NA OR expired) AND
isValidSignal AND trendBull
    canSignalSell = NOT orderActive AND (entryPrice == NA OR expired) AND
isValidSignal AND trendBear

    IF canSignalBuy THEN
        set entryPrice, stopLoss, takeProfit dari buy levels
        isBuy = true
        signalBar = bar_index saat ini
        buat label untuk Entry, SL, TP

    IF canSignalSell THEN
        set entryPrice, stopLoss, takeProfit dari sell levels
        isBuy = false
        signalBar = bar_index saat ini
        buat label untuk Entry, SL, TP

STATISTIK PERFORMANCE:
    SETUP table dengan kolom: Month, PnL(pips), Winrate, Trades

    SET totalWin = 0, totalLoss = 0, totalPnL = 0.0

    FOR setiap bulan (0 sampai 11):
        win = wins[bulan]
        loss = losses[bulan]
        pnl = pnls[bulan]
        trades = win + loss
        winrate = (trades > 0) ? (win * 100 / trades) : 0
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    totalWin  += win
    totalLoss  += loss
    totalPnL  += pnl

    TAMPILKAN data di table

totalTrades = totalWin  + totalLoss
totalWinrate = (totalTrades > 0) ? (totalWin * 100 / totalTrades) : 0

    TAMPILKAN total di baris terakhir table

ALERT CONDITIONS:
    Alert ketika canSignalBuy: "BUY Signal di {ticker}"
    Alert ketika canSignalSell: "SELL Signal di {ticker}"
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