PSPEC — Inside Bar Breakout Trading System

1. VARIABLES

- - pair: string (default: "XAUUSD")
- - maxBars: integer (default: 24)
- - rrRatio: float (default: 1.4)
- - maLength: integer (default: 100)
- - pip_size: float (ditentukan berdasarkan pair)

2. INITIALIZATION

• wins[]: array of 12 integers (diinisialisasi 0)

• losses[]: array of 12 integers (diinisialisasi 0)

• pnls[]: array of 12 floats (diinisialisasi 0.0)

• yearNow: integer = tahun saat ini

• entryPrice, stopLoss, takeProfit: float = NA

• orderActive: boolean = false

• isBuy: boolean = true

• signalBar: integer = NA

• entryLabel, slLabel, tpLabel: label = NA

3. FUNGSI UTAMA

SETUP

Menentukan dasar perhitungan dan arah tren.
pip_size = ditentukan berdasarkan pair
ma = simple_moving_average(close, maLength)
trendBull = close > ma
trendBear = close < ma

SIGNAL DETECTION

Mendeteksi pola inside bar dan menentukan level entry, SL, dan TP.
isInsideBar = (high[1] < high[2]) AND (low[1] > low[2])
isValidSignal = isInsideBar
motherHigh = high[2]
motherLow = low[2]
buyEntry = motherHigh + pip_size
buySL = motherLow
buyTP = buyEntry + (buyEntry - buySL) * rrRatio
sellEntry = motherLow - pip_size
sellSL = motherHigh
sellTP = sellEntry - (sellSL - sellEntry) * rrRatio

RESET TAHUNAN

Reset performa jika berganti tahun.

```
IF tahun != yearNow THEN
    wins[], losses[], pnls[] = 0
    yearNow = tahun saat ini
ENDIF
```

MANAJEMEN SINYAL

Menghapus sinyal kadaluarsa dan mendeteksi failed breakout.

```
IF NOT orderActive AND entryPrice != NA AND (bar_index - signalBar >= maxBars) THEN
    hapus semua label
    reset variabel trading
    tampilkan label "Signal Expired"
ENDIF
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 label
    reset variabel trading
    tampilkan label "FB"
ENDIF
```

MANAJEMEN ORDER

Menentukan kapan entry aktif dan memproses hasil trade (TP/SL).

```
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"
ENDIF
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
    IF tpHit THEN
        wins[monthIdx] += 1
        pnls[monthIdx] += profit dalam pip
    ELSE IF slHit THEN
        losses[monthIdx] += 1
```

```
        pnls[monthIdx] -= loss dalam pip
    ENDIF
    tampilkan label "TP" atau "SL"
    reset variabel trading
    hapus label
ENDIF
```

GENERATE SINYAL BARU

Membuat sinyal baru jika kondisi valid terpenuhi.

```
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
    entryPrice, stopLoss, takeProfit = buyEntry, buySL, buyTP
    isBuy = true
    signalBar = bar_index saat ini
    buat label Entry, SL, TP
ENDIF
IF canSignalSell THEN
    entryPrice, stopLoss, takeProfit = sellEntry, sellSL, sellTP
    isBuy = false
    signalBar = bar_index saat ini
    buat label Entry, SL, TP
ENDIF
```

STATISTIK PERFORMANCE

Menampilkan performa bulanan dan total keseluruhan.

```
FOR bulan = 0 TO 11:
    win = wins[bulan]
    loss = losses[bulan]
    pnl = pnls[bulan]
    trades = win + loss
    winrate = (trades > 0) ? (win * 100 / trades) : 0
ENDFOR
```

ALERT CONDITIONS

Mengirimkan alert saat muncul sinyal baru.
Alert ketika canSignalBuy: "BUY Signal di {ticker}"
Alert ketika canSignalSell: "SELL Signal di {ticker}"

4. DESKRIPSI RINGKAS

Sistem ini secara otomatis membaca pola inside bar pada grafik harga, memverifikasi arah tren dengan moving average, lalu menghasilkan sinyal buy atau sell dengan target dan batas

risiko yang telah ditentukan. Sistem memantau posisi aktif, memperbarui statistik bulanan, serta menampilkan hasil performa dan notifikasi di chart.