**Project Name**

Tortoise Flips

**Project outcomes**

**The BOT must be able to work on pips/range charts otherwise will need to rethink project**

1. BOT to enter/exit trades
2. Chart markups
3. CSV File output

## Contents

* parameters
* indicators
* long position signals - to open and close
* short position signals - to open and close
* It would also be useful to add screenshots of trade entry & exit points.
* Explanations
* Example Trades

## ADJUSTABLE PARAMETERS

1. Session select –

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1. Lookback Number – can be from 0 to infinte – default 3
2. Offset for stop order – can be from 0 to infinite
3. PSAR – default max is 0.08 – can be changed though
4. Risk box

PSAR

opposite side of dragon

3x range of range on chart (multiple can be changed though – default is 3)

## 

## INDICATORS

All the indicators I need to use in my trading strategy are listed below, the indicators will be standard cTrader indicators or 3rd party indicators complete with source code.

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Description automatically generated**Indicators**

LSMA 10

LSMA 30 (used for reference – not used in coding)

SMA 10 +-0.5SD

PSAR based off LSMA 10

LSMA 10 x SMA 10 +- 0.5SD (Dragon)

Bollinger band cloud on SMA 10

1. LSMA 30 (RL30) [(LSMA)](https://clickalgo.com/lsma-indicator)
2. LSMA Cross
   1. A screenshot of a computer

      Description automatically generatedSMA 10 +- 0.5 (referred to as the dragon)
   2. LSMA 10 (RL10)
   3. Dots for RL10 crossing and closing on other side of dragon
3. PSAR using LSMA (10)

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1. Bollinger band cloud – to highlight yellow band
2. Simple Moving Average (10) – (2 – LSMA Cross probably has this indicator in the code)

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# 

# TRADES entry / exit

If risk box is never hit than there will always be a trade on.

The closing position signals for a LONG trade are the exact same signals for a SHORT trade.

**Inputs / Variables / Definitions**

RLXD define (Green / Red)

PSAR flip define

Lookback bars define

HH = Higher High

LL = Lower Low

Risk box

## **LONG TRADES**

## Opening a Position

All the signals below must be true to open a long (buy) position.

IF RLXD (Green) and PSAR flip (to long side)

THEN check for lookback bars for HH

REFERENCE PRICE

THEN add on offset to the REFERENCE PRICE to = ADJUSTED PRICE

STOP ORDER + 1 pip/tick

RISK BOX = VARIABLE set

## Closing a Position

Close long when either 1 or 2 occurs whichever first (2 is the opening a position for a short) :

1. Risk box hit
2. IF RLXD (Red) and PSAR flip (Short)

THEN check for lookback bars for LL

REFERENCE PRICE

THEN deduct offset from the REFERENCE PRICE to = ADJUSTED PRICE

STOP ORDER - 1 pip/tick

RISK BOX = VARIABLE set

# SHORT TRADES

## Opening a Position

All the signals below must be true to open a long (buy) position.

IF RLXD (Red) and PSAR flip (to short side)

THEN check for lookback bars for LL

REFERENCE PRICE

THEN deduct offset from the REFERENCE PRICE to = ADJUSTED PRICE

STOP ORDER - 1 pip/tick

RISK BOX = VARIABLE set

## Closing a Position

Close long when either 1 or 2 occurs whichever first (2 is the opening position for a long):

1. Risk box hit
2. IF RLXD (Green) and PSAR flip (Long)

THEN check for lookback bars for HH

REFERENCE PRICE

THEN add on offset to the REFERENCE PRICE to = ADJUSTED PRICE

STOP ORDER + 1 pip/tick

RISK BOX = VARIABLE set

**Explanations**

RLXD

Regression line / LSMA 10 crosses and closes on (x) the opposite side of the dragon (SMA 10+-0.5 SD)

Green dot is when RLXD crosses the dragon for long bias

Red dot is when RLXD crosses the dragon for short bias

*Have the algo for this - attached*

A diagram of a graph

Description automatically generated with medium confidence

Dragon

(SMA 10+-0.5 SD)

A diagram of a dragon

Description automatically generated

PSAR flip = PSAR flip to Long or Short bias – based off RL10 or LSMA10 not price

A diagram of a graph

Description automatically generated with medium confidence

Risk box

The amount of risk on a trade is measure to one of the following values:

1. PSAR – default setting – entry price to PSAR value is risk box

A colorful lines and dots

Description automatically generated

1. Opposite side of dragon

A close up of a house

Description automatically generated

For the other side of the dragon it will be the HIGHEST / LOWEST value of the opposite side of the dragon(SMA-0.5SD for longs and SMA+0.5SD for shorts) for the last 5 bars

1. 3x range of range on chart

If the range of the chart is 35 pips, then the risk box will be 3x35 = 105pips

Lookback bars define

A diagram of a graph

Description automatically generated with medium confidence

Lookback bars and offsets explained

A graph of a price

Description automatically generated with medium confidence

**Chart Mark-Ups**

Can you tell me if any or all of this is possible in cTrader.

Need to get the entries marked up with risk box and offset – the actual gain/loss the Maximum Favourable Excursion and Maximum Adverse Excursion.

A diagram of a graph

Description automatically generated with medium confidence

**CSV output**

A screen shot of a graph

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A previous coder has been able to code a script to export specific details to a CSV file. This was not via a bot it was via an indicator. If possible is there any way to get the following information exported to a csv file for each trade.

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Examples

A graph of a stock market

Description automatically generated with medium confidence

A graph with different colored lines

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