Strategy 1

```
//@version=5
strategy("EMA Convexity Strategy - Long Only", overlay=true)


// Inputs
emaLength = input(20, title="EMA Length")

stopLossPercent = input(11, title="Stop Loss (%)")

takeProfitPercent = input(10, title="Take Profit (%)")

proximityPercent = input(5, title="Entry Proximity (%)")


// Calculate EMA and its second derivative
emaValue = ta.ema(close, emaLength)

emaSecondDerivative = ta.ema(ta.ema(emaValue, 3), 3) -
ta.ema(ta.ema(emaValue, 3), 6)


// Identify convex minima
isConvexMinima = emaSecondDerivative > 0 and
ta.barssince(emaSecondDerivative < 0) == 1


// Entry conditions with proximity, convexity, and trade management (long
only)
longEntry = isConvexMinima and (close - emaValue) <= (proximityPercent /
100) * close and (close - emaValue) >= -(proximityPercent / 100) * close and
strategy.position_size == 0


// Calculate stop loss and take profit levels
longStopPrice = (1 - stopLossPercent / 100) * strategy.position_avg_price
```

```
longTakeProfitPrice = (1 + takeProfitPercent / 100) *
strategy.position_avg_price


// Submit entry and exit orders (long only)

if (longEntry)

    strategy.entry("Long", strategy.long)


strategy.exit("Exit Long", "Long", stop=longStopPrice,
limit=longTakeProfitPrice)


// Plot the EMA and mark entry points (long only)

plot(emaValue, color=color.blue, linewidth=50, title="EMA")

plotshape(longEntry, style=shape.triangleup, location=location.belowbar,
color=color.green, size=size.small)
```

The strategy attempts to capitalize on potential upward price movements. It uses the convexity of the EMA to identify areas where the price is likely to reverse upwards.

You have to manually setup stop loss and take profit percentage according to the risk to reward ratio or sometimes it depends on some stocks.

Long-Only Strategy: This strategy is specifically designed for long positions. It does not consider shorting opportunities.

For different stocks I use different time frames and different stop loss & take profit percentages whichever are suitable for this strategy according to the performance of back test.
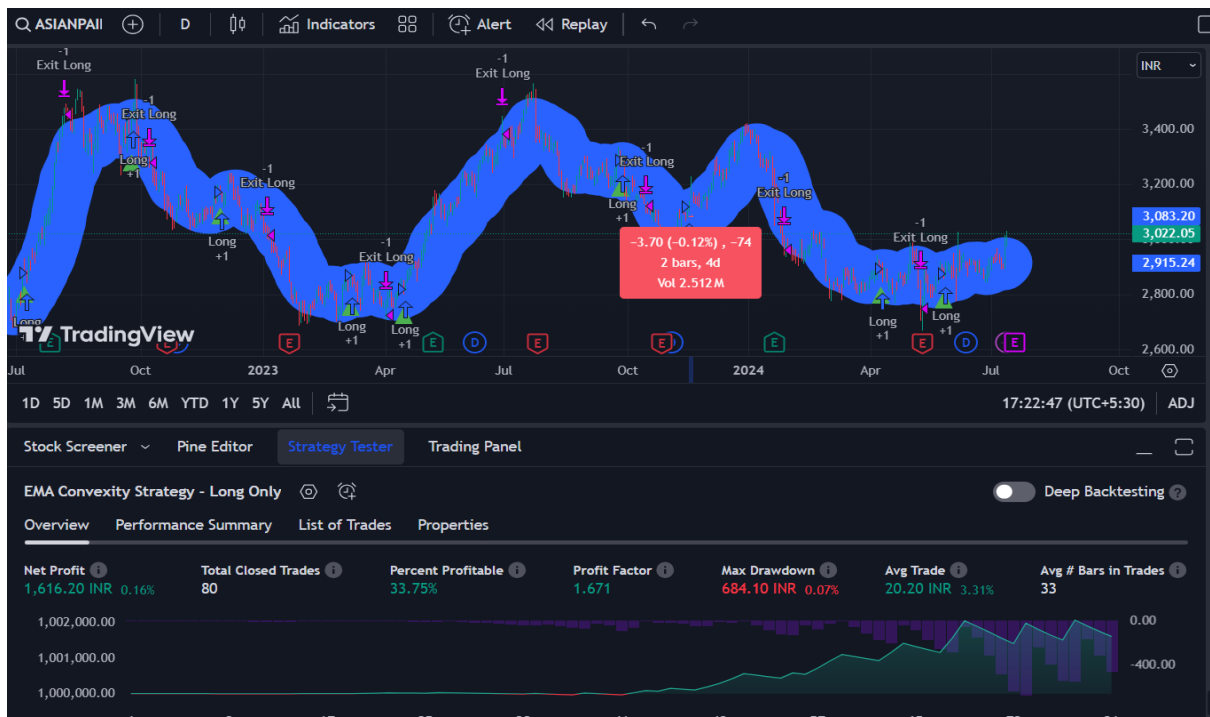
The strategy is basically for upward trending stocks in the current market .

REFEX INDUSTRIES 1D TIME FRAME

STOP LOSS-10%

TAKE PROFIT -25%

ASIAN PAINT 1D TIME FRAME

STOP LOSS-5%

TAKE PROFIT -20%