//@version=3

study("EMA strategy", overlay=true)

// Input

n\_wait\_candles = input(1, "Number of candles to wait")

ema\_fast\_period = input(2, "EMA Fast")

ema\_fast\_source = input(close, title="EMA fast Source")

ema\_slow\_period = input(5, "EMA Slow")

ema\_slow\_source = input(close, title="EMA slow Source")

ema\_fast = ema(ema\_fast\_source, ema\_fast\_period)

ema\_slow = ema(ema\_slow\_source, ema\_slow\_period)

//Setting

Color00 = #f57f17//Orange

Color02 = #f57f17FF//Orange 100%

Color10 = #006400//Green

Color13 = #388e3c//Light Green

Color20 = #8B0000//Red

Color23 = #b71c1c//Light Red

Color30 = #ffffff//White

Color31 = #808080//Gray

// EMA Fast Plot

plot(ema\_fast, "EMA fast", lime, linewidth=3)

// EMA Slow Plot

plot(ema\_slow, "EMA slow", red, linewidth=3)

//Setting Alert

long\_cond = crossover (ema\_fast[n\_wait\_candles], ema\_slow[n\_wait\_candles])

for i = 1 to n\_wait\_candles

long\_cond := long\_cond and (ema\_fast[n\_wait\_candles - i] > ema\_slow[n\_wait\_candles - i])

short\_cond = crossunder (ema\_fast[n\_wait\_candles], ema\_slow[n\_wait\_candles])

for i = 1 to n\_wait\_candles

short\_cond := short\_cond and (ema\_fast[n\_wait\_candles - i] < ema\_slow[n\_wait\_candles - i])

plotshape(long\_cond ? low: na, title ="Long Label", text="Long",

textcolor = Color30, color = Color10, transp = 0,

style = shape.labelup, size = size.normal, location = location.absolute)

plotshape(short\_cond ? high: na, title ="Short Label", text="Short",

textcolor = Color30, color = Color20, transp = 0,

style = shape.labeldown, size = size.normal, location = location.absolute)

alertcondition(long\_cond, title='long', message='{"type":"long"}')

alertcondition(short\_cond, title='short', message='{"type":"short"}')