//==================================================================================================================================================================================================================//

//===========================ABRaViTTG 5EMA Code Start - ABRaViTTG{===========================//

// This source code is subject to the terms of the Mozilla Public License 2.0 at https://mozilla.org/MPL/2.0/

// © ABRaViTTG

//@version=5

//==================================================================================================================================================================================================================//

indicator(title**=**'5EMA - ABRaViTTG'**,** overlay**=**true)

//==================================================================================================================================================================================================================//

Eusl **=** input.bool(false**,** title**=**"Enable the Extra SL shown below"**,** group**=**'5EMA - ABRaViTTG')

usl **=** input.int(defval**=**5 **,** title**=**'Value to set SL number of points below-low or above-high'**,** minval**=**1**,** maxval**=**100**,** group**=**'5EMA - ABRaViTTG')

RiRe **=** input.int(defval**=**1**,**title**=**'Risk to Reward Ratio'**,**minval**=**2**,**maxval**=**25**,** group**=**'5EMA - ABRaViTTG')

ShowSell **=** input.bool(true**,**'Show Sell Signals'**,** group**=**'5EMA - ABRaViTTG')

ShowBuy **=** input.bool(true**,**'Show Buy Signals'**,** group**=**'5EMA - ABRaViTTG')

BSWCon **=** input.bool(defval**=**false**,** title**=**'Buy/Sell with Extra Condition - candle close'**,** tooltip**=**'Extra Condition 1 : candle close greater/lesser than previous candle close, This can sometimes save you from false moves but by using this, you can also miss out on big moves as you will enter trade after candle closing instead of entering at break of high/low'**,** group**=**'5EMA - ABRaViTTG')

ema5 **=** ta.ema(close**,**5)

pema5 **=** plot(ema5**,** '5 Ema'**,** color**=**color.new(#41a5e4**,** 0)**,** linewidth**=**2)

ema20 **=** ta.ema(close**,**20)

pema20 **=** plot(ema20**,** '20 Ema'**,** color**=**color.new(#4cd018**,** 0)**,** linewidth**=**2)

shortCondition **=** ta.crossunder(ta.ema(close**,** 5)**,** ta.ema(close**,** 20))

longCondition **=** ta.crossover(ta.ema(close**,** 5)**,** ta.ema(close**,** 20))

**var** **bool** Short **=** na

**var** **bool** Long **=** na

**var** shortC **=** 0

**var** sslhitC **=** 0

**var** starhitC **=** 0

**var** **float** ssl **=** na

**var** **float** starl **=** na

**var** **float** star **=** na

**var** **float** sellat **=** na

**var** **float** alert\_shorthigh **=** na

**var** **float** alert\_shortlow **=** na

**var** **line** lssl **=** na

**var** **line** lstar **=** na

**var** **line** lsell **=** na

**var** **label** lssllbl **=** na

**var** **label** lstarlbl **=** na

**var** **label** lselllbl **=** na

**var** longC **=** 0

**var** lslhitC **=** 0

**var** ltarhitC **=** 0

**var** **float** lsl **=** na

**var** **float** ltarl **=** na

**var** **float** ltar **=** na

**var** **float** buyat **=** na

**var** **float** alert\_longhigh **=** na

**var** **float** alert\_longlow **=** na

**var** **line** llsl **=** na

**var** **line** lltar **=** na

**var** **line** lbuy **=** na

**var** **label** llsllbl **=** na

**var** **label** lltarlbl **=** na

**var** **label** lbuylbl **=** na

ShortWC **=** low[1] **>** ema5[1] **and** low[1] **>** low **and** shortC **==** 0 **and** close**<**close[1]

ShortWOC **=** low[1] **>** ema5[1] **and** low[1] **>** low **and** shortC **==** 0

Short **:=** BSWCon **?** ShortWC **:** ShortWOC

sslhit **=** high **>** ssl **and** shortC **>** 0 **and** sslhitC **==** 0

starhit **=** low **<** star **and** shortC **>** 0 **and** starhitC **==** 0

LongWC **=** high[1] **<** ema5[1] **and** high[1] **<** high **and** longC **==** 0 **and** close**>**close[1]

LongWOC **=** high[1] **<** ema5[1] **and** high[1] **<** high **and** longC **==** 0

Long **:=** BSWCon **?** LongWC **:** LongWOC

lslhit **=** low **<** lsl **and** longC **>** 0 **and** lslhitC **==** 0

ltarhit **=** high **>** ltar **and** longC **>** 0 **and** ltarhitC **==** 0

**if** Short **and** ShowSell

shortC **:=** shortC **+** 1

sslhitC **:=** 0

starhitC **:=** 0

alert\_shorthigh **:=** high[1]

**if** Eusl

ssl **:=** high[1] **+** usl

starl **:=** BSWCon **?** ((high[1] **-** close) **+** usl) **\*** RiRe **:** ((high[1] **-** low[1]) **+** usl) **\*** RiRe

**else**

ssl **:=** high[1]

starl **:=** BSWCon **?** (high[1] **-** close) **\*** RiRe **:** (high[1] **-** low[1]) **\*** RiRe

star **:=** BSWCon **?** close **-** starl **:** low[1] **-** starl

sellat **:=** BSWCon **?** close **:** low[1]

lssl **:=** line.new(bar\_index**,** ssl**,** bar\_index**,** ssl**,** color**=**color.new(#fc2d01**,**45)**,** style**=**line.style\_dashed)

lstar **:=** line.new(bar\_index**,** star**,** bar\_index**,** star**,** color**=**color.new(color.green**,**45)**,** style**=**line.style\_dashed)

lsell **:=** line.new(bar\_index**,** sellat**,** bar\_index**,** sellat**,** color**=**color.new(color.orange**,**45)**,** style**=**line.style\_dashed)

lssllbl **:=** label.new(bar\_index**,** ssl**,** style**=**label.style\_none**,** text**=**'Stop Loss - Short' **+** ' (' **+** str.tostring(ssl) **+** ')'**,** textcolor**=**color.new(#fc2d01**,**35)**,** color**=**color.new(#fc2d01**,**35))

lstarlbl **:=** label.new(bar\_index**,** star**,** style**=**label.style\_none**,** text**=**'Target - Short' **+** ' (' **+** str.tostring(star) **+** ')'**,** textcolor**=**color.new(color.green**,**35)**,** color**=**color.new(color.green**,**35))

lselllbl **:=** label.new(bar\_index**,** sellat**,** style**=**label.style\_none**,** text**=**'Sell at' **+** ' (' **+** str.tostring(sellat) **+** ')'**,** textcolor**=**color.new(color.orange**,**35)**,** color**=**color.new(color.orange**,**35))

**if** sslhit **==** false **and** starhit **==** false **and** shortC **>** 0

line.set\_x2(lssl**,** bar\_index)

line.set\_x2(lstar**,** bar\_index)

line.set\_x2(lsell**,** bar\_index)

sslhitC **:=** 0

starhitC **:=** 0

**else**

**if** sslhit

shortC **:=** 0

sslhitC **:=** sslhitC **+** 1

**else**

**if** starhit

shortC **:=** 0

starhitC **:=** starhitC **+** 1

**if** Long **and** ShowBuy

longC **:=** longC **+** 1

lslhitC **:=** 0

ltarhitC **:=** 0

alert\_longlow **:=** low[1]

**if** Eusl

lsl **:=** low[1] **-** usl

ltarl **:=** BSWCon **?** ((close **-** low[1]) **+** usl) **\*** RiRe **:** ((high[1] **-** low[1]) **+** usl) **\*** RiRe

**else**

lsl **:=** low[1]

ltarl **:=** BSWCon **?** (close **-** low[1]) **\*** RiRe **:** (high[1] **-** low[1]) **\*** RiRe

ltar **:=** BSWCon **?** close **+** ltarl **:** high[1] **+** ltarl

buyat **:=** BSWCon **?** close **:** high[1]

llsl **:=** line.new(bar\_index**,** lsl**,** bar\_index**,** lsl**,** color**=**color.new(#fc2d01**,**45)**,** style**=**line.style\_dotted)

lltar **:=** line.new(bar\_index**,** ltar**,** bar\_index**,** ltar**,** color**=**color.new(color.green**,**45)**,** style**=**line.style\_dotted)

lbuy **:=** line.new(bar\_index**,** buyat**,** bar\_index**,** buyat**,** color**=**color.new(color.orange**,**45)**,** style**=**line.style\_dotted)

llsllbl **:=** label.new(bar\_index**,** lsl**,** style**=**label.style\_none**,** text**=**'Stop Loss - Long' **+** ' (' **+** str.tostring(lsl) **+** ')'**,** textcolor**=**color.new(#fc2d01**,**35)**,** color**=**color.new(#fc2d01**,**35))

lltarlbl **:=** label.new(bar\_index**,** ltar**,** style**=**label.style\_none**,** text**=**'Target - Long' **+** ' (' **+** str.tostring(ltar) **+** ')'**,** textcolor**=**color.new(color.green**,**35)**,** color**=**color.new(color.green**,**35))

lbuylbl **:=** label.new(bar\_index**,** buyat**,** style**=**label.style\_none**,** text**=**'Buy at' **+** ' (' **+** str.tostring(buyat) **+** ')'**,** textcolor**=**color.new(color.orange**,**35)**,** color**=**color.new(color.orange**,**35))

**if** lslhit **==** false **and** ltarhit **==** false **and** longC **>** 0

line.set\_x2(llsl**,** bar\_index)

line.set\_x2(lltar**,** bar\_index)

line.set\_x2(lbuy**,** bar\_index)

lslhitC **:=** 0

ltarhitC **:=** 0

**else**

**if** lslhit

longC **:=** 0

lslhitC **:=** lslhitC **+** 1

**else**

**if** ltarhit

longC **:=** 0

ltarhitC **:=** ltarhitC **+** 1

plotshape(ShowSell **and** Short**,** title**=**'Sell'**,** location**=**location.abovebar**,** offset**=**0**,** color**=**color.new(#e74c3c**,** 45)**,** style**=**shape.arrowdown**,** size**=**size.normal**,** text**=**'Sell'**,** textcolor**=**color.new(#e74c3c**,** 55))

plotshape(ShowSell **and** sslhit**,** title**=**'SL Hit - Short'**,** location**=**location.abovebar**,** offset**=**0**,** color**=**color.new(#fc2d01**,** 25)**,** style**=**shape.arrowdown**,** size**=**size.normal**,** text**=**'SL Hit - Short'**,** textcolor**=**color.new(#fc2d01**,** 25))

plotshape(ShowSell **and** starhit**,** title**=**'Target Hit - Short'**,** location**=**location.belowbar**,** offset**=**0**,** color**=**color.new(color.green**,** 45)**,** style**=**shape.arrowup**,** size**=**size.normal**,** text**=**'Target Hit - Short'**,** textcolor**=**color.new(color.green**,** 55))

plotshape(ShowBuy **and** Long**,** title**=**'Buy'**,** location**=**location.belowbar**,** offset**=**0**,** color**=**color.new(#2ecc71**,** 45)**,** style**=**shape.arrowup**,** size**=**size.normal**,** text**=**'Buy'**,** textcolor**=**color.new(#2ecc71**,** 55))

plotshape(ShowBuy **and** lslhit**,** title**=**'SL Hit - Long'**,** location**=**location.belowbar**,** offset**=**0**,** color**=**color.new(#fc2d01**,** 25)**,** style**=**shape.arrowdown**,** size**=**size.normal**,** text**=**'SL Hit - Long'**,** textcolor**=**color.new(#fc2d01**,** 25))

plotshape(ShowBuy **and** ltarhit**,** title**=**'Target Hit - Long'**,** location**=**location.abovebar**,** offset**=**0**,** color**=**color.new(color.green**,** 45)**,** style**=**shape.arrowup**,** size**=**size.normal**,** text**=**'Target Hit - Long'**,** textcolor**=**color.new(color.green**,** 55))

**if** ShowSell **and** Short

alert("Go Short@ " **+** str.tostring(sellat) **+** " : SL@ " **+** str.tostring(ssl) **+** " : Target@ " **+** str.tostring(star) **+** " "**,** alert.freq\_once\_per\_bar )

**if** ShowSell **and** sslhit

alert("Short Stop-loss hit "**,** alert.freq\_once\_per\_bar )

**if** ShowSell **and** starhit

alert("Short Target hit "**,** alert.freq\_once\_per\_bar )

**if** ShowBuy **and** Long

alert("Go Long@ " **+** str.tostring(buyat) **+** " : SL@ " **+** str.tostring(lsl) **+** " : Target@ " **+** str.tostring(ltar) **+** " "**,** alert.freq\_once\_per\_bar )

**if** ShowBuy **and** lslhit

alert("Long Stop-loss hit "**,** alert.freq\_once\_per\_bar )

**if** ShowBuy **and** ltarhit

alert("Long Target hit "**,** alert.freq\_once\_per\_bar )

//===========================ABRaViTTG5EMA Code End - ABRaViTTG===========================]//

//==================================================================================================================================================================================================================//