event 2.2 purple average is crossing above black avg

there are 4 scenarios for position buy when 2.2 event appear on the graph.
all of them are triggered in one hour graph giving an blue arrow at the open of the candle and a blue arrow face down at the top of the closing candle

Short explanation of the algo process
The algo is working with 3 graphs (1H,15,5)that should be connected.
After position triggered in 1H an listing process in 15 minutes graph is starting,
When the position is opened it will mark the candle that opens the position also with a blue candle facing up at the open of the candle.
All the marks (listening process,openposition,stoploss,takeprofits,closingposition) will also be shown in15- 5 minutes graph
1.listening process-black circle dot
2.openposition- blue arrow face up at the open candle
3.stop loss- black triangular face down at the open of the candle
4.take profits-circle dot,
5.closing position- blue arrow facing down (for red candle- in the open,for green candle- close)

The algo will promote takeprofit -tp with 15 minutes until there is 15 minutes red candle and then algo will switch to promote by 5 minutes the rest of the left tp(1-6) .
So the code of the algo should show the open and close of the position in 5,15,1H graphs,and show listening and promotion of tp in the 15 and 5 minutes graph only.

We need to run every scenario(1-4) of the 2.2 ,on 2 years of data to see how it behaves.
To check when it does not work with the conditions,st or tp or listening process.
I want to examine the result after you finish each one of them with a separate file so it will be easier to see the mistakes in the entry closing etc.
so, when you send me each separate file with the data, send it with all three graphs **5,15,1H** as three tabs so I can compare between them.for each of the algo scenario (2.2.1,2.2.2,2.2.3,2.2.4) run each on GOOG stock and on GC contract.

Also it will be easy to correct the mistake when there is only one kind of signal and not 4 kinds in the same graph.
After checking I will send you back a picture and explanation of what needs to be changed for the final version.

1.first scenario is 2.2 is green candle and the position event should be 2.2.1
should be placed above the [2.2] event.
and should place the blue arrow at the open of the current candle(**5,15,1H**)
When one hour is triggered it will check in 15 minutes the current candle if it is a green
candle that closes above average purple it will open the position. if not it will trigger then
another listening process in 15 minutes of up to 8 candles(after 8 candles it will close the
process) until it will find a green candle that will close above moving average purple in 15
minutes chart.And it will show the position with all the marks in 5 min chart as well.
 All open positions are at market price.

Conditions:
current candle is green
current candle close above purple
 purple avg going up 6 candle back in current candle
(meaning it compares the average purple value in the current candle and goes back another
5 candles and checks the value of purple avg in the 6th candle, if current candle avg purple
is bigger then the 6th candle avg purple it means that purple avg going up 6 candle back.)
 purple is above black in current candle
 purple is above the blue in current candle
 orange is below the blue in current candle
Orange is above brown in current candle
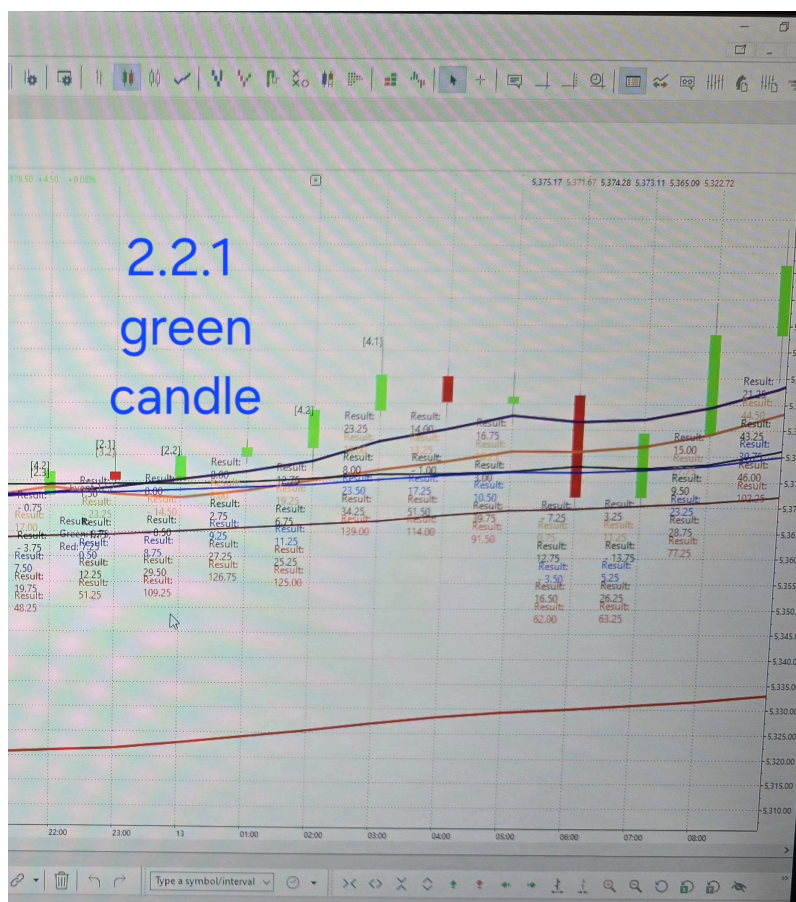Brown is above red in current candle
 orange is below the black in current candle
 black is positive in the calculation of 20 candles back
 blue is positive in the calculation of 30 candles back
 brown is positive in the calculation of 50 candles back
 red is positive in the calculation of 100 candles back

2.The second scenario is 2.2.2 when the 2.2 current candle is red.
should be placed above the [2.2] event.

 After the current candle it will open a listing process up to 6 candles and will open a trigger buy signal in the first green candle that closes in 1H.
After one hour is triggered it will check in 15 minutes the current candle if it is a green candle that closes above average purple it will open the position. if not it will trigger then another listening process in 15 minutes of up to 8 candles(after 8 candles it will close the process) until it will find a green candle that will close above moving average purple in 15 minutes chart.And it will show the position with all the marks in 5 min chart as well.
 All open positions are at market price.

Conditions:
 purple avg going up 6 candle back in current candle
 purple is positive in the calculation of 6 candles back
 orange is positive in the calculation of 12 candles back
 brown is positive in the calculation of 50 candles back
 red is positive in the calculation of 100 candles back
 in current candle purple is above black
in current candle brown avg is above the red
in current candle purple is above the brown

in current candle purple is above the red
 in current candle orange is below the black
in current candle orange is above the brown
in current candle orange is above the red
in current candle purple is below the blue
in current candle orange is below the blue
in current candle black is below the blue

and should place the blue arrow at the open of the first green candle that open below avg
purple and previous candle was red closed below avg purple
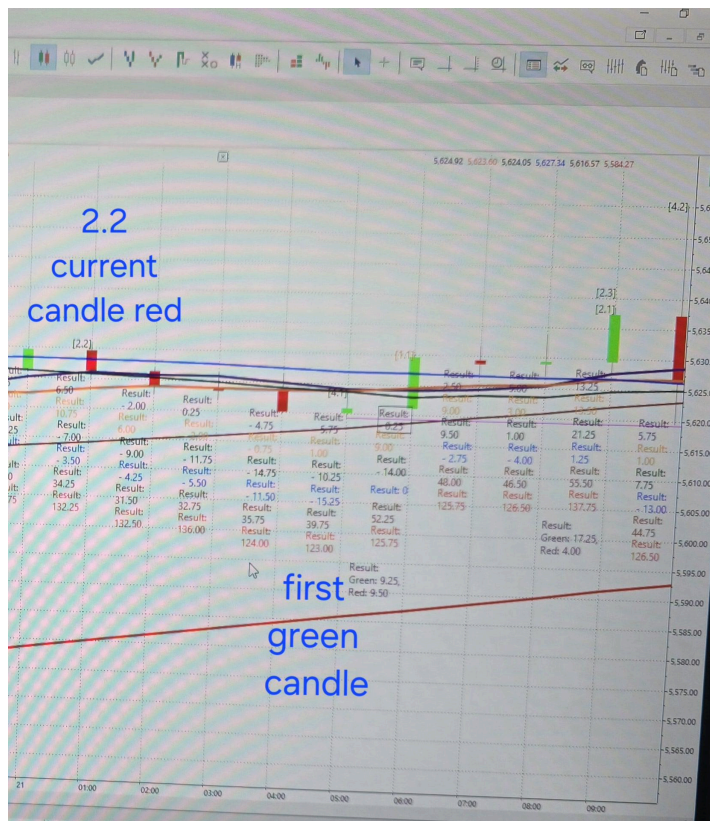
3.third scenario is 2.2 is green candle and the position event should be 2.2.3
should be placed above the [2.2] event.
and should place the blue arrow at the open of the current candle

Conditions:
current candle is green
current candle open above purple
previous candle is green open above black
 purple avg going up 6 candle back in current candle
 orange avg going up 6 candle back in current candle

(meaning it compared the average purple value in the current candle and go back another 5
candles and check the value of purple avg in the 6th candle, if current candle avg purple is
bigger then the 6th candle avg purple it means that purple avg going up 6 candle back.)

purple is above black in current candle
purple is above orange in current candle
 purple is positive in the calculation of 6 candles back
 orange is positive in the calculation of 12 candles back

 purple is below the blue
 orange is below the blue
Orange is below brown
purple is below brown
Brown is below red
black is below blue

4.The fourth scenario is 2.2.4 when the 2.2 current candle is red.
should be placed above the [2.2] event.

When one hour is triggered it will check in 15 minutes the current candle if it is a green candle that closes above average purple it will open the position. if not it will trigger then another listening process in 15 minutes of up to 8 candles(after 8 candles it will close the process) until it will find a green candle that will close above moving average purple in 15 minutes chart.And it will show the position with all the marks in 5 min chart as well.
 All open positions are at market price.

Conditions:
 purple avg going up 6 candle back in current candle
 orange avg going up 6 candle back in current candle

 purple is positive in the calculation of 6 candles back
 orange is positive in the calculation of 12 candles back

 in current candle purple is above black
in current candle orange is below black
in current candle brown avg is above the red
in current candle purple is below the brown
in current candle orange is below the brown
 in current candle orange is below the black
in current candle orange is below the red
in current candle purple is below the blue
in current candle orange is below the blue
in current candle black is below the blue

and should place the blue arrow at the open of the first green candle that open above avg
purple
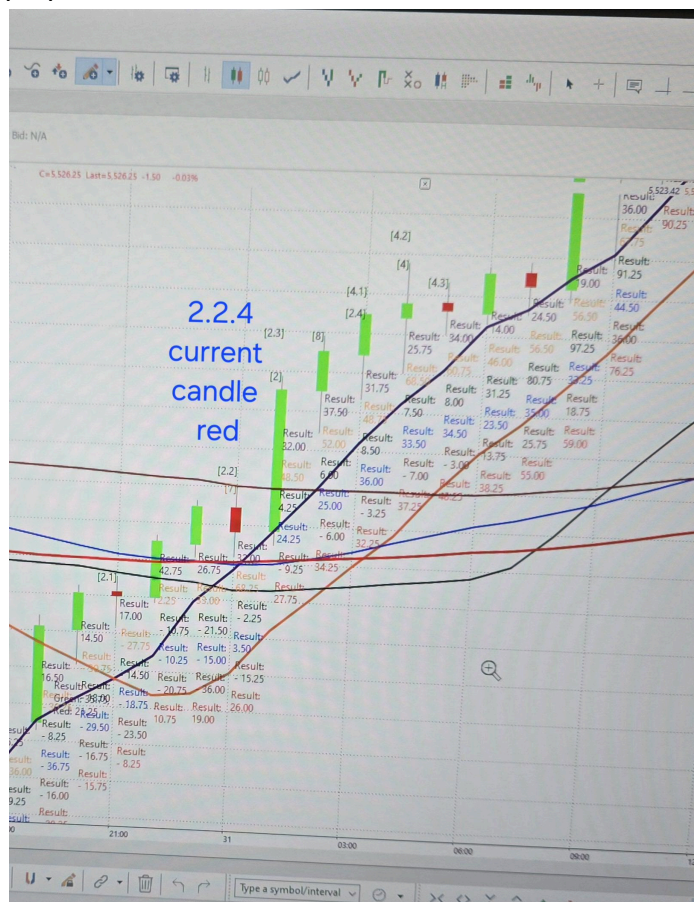
When you write the code please divide it to separate tabs and not all of the code in one log document. This way it will be more organized and clean.
 so i think there should be 4 tabs
1.event structure - (2.2.1,2.2.2,2.2.3,2.2.4) code
2.algo process- mention here below
3.chart $ code
4.chart % code
second Part open position and stoploss, take profit.

Once a trigger has opened in one hour a graph of one of the 4 events (2.2.1,2.2.2,2.2.3,2.2.4) it will mark the event at the top of the candle close to the [2.2] and also a blue arrow facing up in the open of the candle.
When one hour is triggered it will check in 15 minutes the current candle if it is a green candle that closes above average purple it will open the position.
 if not it will trigger then another listening process in 15 minutes of up to 8 candles(after 8 candles it will close the process) until it will find a green candle that will close above moving average purple in 15 minutes chart.And it will show the position with all the marks in 5 min chart as well.
 All open positions are at market price.

(i will give you feedback on this once i will look at the data of 1-2 year back opening in 15 minutes. as there might be other conditions to add to the opening of position in 15 minutes graph)
build function that will monitor All The trades should be closed 5 minutes before the market is closed both EU market and US market.

The signals should open positions on stocks and futures in the EU and US market by this list.Showing in the google sheet 🟩 STOCKS AND FUTURES BY PRICE

There are 6 TP promotions in total and in this example I will explain how the system is promoted.

You need to build 2 charts in the code,that will be connected to the algo system one chart changing st/tp by % and the second by $ soI will be able to change and adjust , take profit and stop loss values on the chart.The two charts will need to take the market price from the broker and be updated every day.

Let's say the user has selected Algo by %
and open position.
The algo will calculate from the chart 🟩 STOCKS AND FUTURES BY PRICE
 the % of stoploss and place it when open position.

For the promotion of only the first tp-0 it will need to check
The green candleopen price is above the filled price for BUY signal.

then it should look at the open and close of the candle and extract what is the 10%, of that size so it will promote to that price.
This 10% calculation is only done in the 0 Tp promotion so it will secure some profit to cover the broker fee in case of early closing.
0 tp does not count in the 5 tp countdown.

For Tp 1 and all the rest -5, so first it will search what is the SL(%) in the sheet. and calculate the SL.place a stop order.

Let's say if the current candle close is GREEN(15 minutes) and the price is >= TP1 (%) and also above the fill price - profit zone,then it will promote the TP0 to 10% out of the volume of the green candle and adjust the SL.(volume of the candle green candle = close-open).after checking what is the 10% out of the candle body.it will promote only if market price is bigger than the 10% price. If not, it will wait for the next 15 minutes before the candle that will close.If promoted we will start to check for Tp2.

Now we are checking for TP2, in the next green candle .If the price is >= TP2(%) from the last tp price, then we will promote the TP2 by 15 candles until tp5.
Example, let say tp1 is promoted to a price of 100$ and tp2 in the chart will promote only if price is 0.5% so it will promote when next green candle will close above 100.5$

Now after Tp 1 is promoted and stoploss is above the profit zone, Let's say instead of a next green candle there is a red 15 minute candle that got closed.
The algo will switch and move to check the next 5 minutes closed green candle and will promote to the open of the 5 minutes candle and not according to the chart %(so it will only promote according to the charts with 15 minutes) the algo will keep promoting this way until tp5 and will close the position after tp 5.

Also need to create a timer that will check and close every position 5 minutes before the market is closing so there will be no position to stay open overnight.
Another cancellation of the position should be if for some reason the position stays open without stop order.

two charts should have a switch between them so once the switch left or right it will move from one chart to the other but user will not be able to choose the same symbol in both charts,
one chart will be for change in $ the other will be for change in % you need to put a box with a V in every symbol on the column A in the chart. and one box above to mark all.
as a default the boxes will be empty.
Only once the user marked the box will be able to trade the symbol and to edit the tp and stoploss values.
The two charts should get an up date price from the broker for all symbols close to end of day and up date every day.the broker is interactive broker

in the two charts there are 5 plans on how much to sell in every promotion of tp so in the chart that you will code you need to put a square with a V in every plan in every row so once the user will decide to check stock visa for example with the plan of 20% it will block all the other plans and he will not be able to add another plan unless he untagged the first option also there should be a button of save changes after he will not be able to close the window without saving the changes.

100%" "promote
50%"   "promote
25%"   "promote
20%"   "promote
10-20-20-50%"promote

🔳 STOCKS AND FUTURES BY PRICE

https://docs.google.com/spreadsheets/d/1eUgdo-WZ2zjgTsALIrKpFqx4ovuT6l8dtaR2CRP9M-k/edit?usp=sharing

Part 3 and the last.
please make clear notes of every function in the code.
we need to connect the system to my account in interactive broker for the demo account so it will able to send the positions and also get the feed of market price for the symbols.
After We will finish with the project I want you to go over the code to my programer so he will understand it and will be able to continue the work of maintenance with me.