

Important Notes

- If you have never developed MQL5 program before, please do not bid for the project. When you respond to this requirement. I do not need you to introduce yourself how many years of experience you have or how good you are and such. I do not buy into flashy sales wording. I want to know how you plan to write the program and if you understand and deliver my requirement in your own words, etc. This will get my attention.
- The code you develop will be entirely belong to me. Your acceptance of this deal means you cannot reuse, resell, recode in any other way that mimic the same logic of my requirement for/to any third parties.
- During the first test of the program, I expect you to provide two files as per requirement. one is the .ex5 file indicator, and the other is .ex5 file for the EA (for stage payments). During final acceptance of the delivery, you will provide all the mq5 files and other necessary documentations.
- You will provide 4 files (.ex5 and .mq5 for both Indicator and EA) in the case of full payment upfront during the first test.
- For stage payments, on every stage you will need to show me the screenshot of your unit test result before I proceed for next payment. This is to ensure quality of the work is as per requirement.
- Do not ask me to test unless you provided both the EA and indicator files at the same time.
- I will ask for extension for the testing due to my other project commitments but normally within reasonable number of days as some EA strategies only work on higher timeframe chart which means longer testing time needed.
- The price and delivery time agreed will be final unless additional requirement which I will ask you to quote separately for enhancement purpose.
- Please follow the fields naming and sequence of the fields stated in the input window stated unless you have issue with the programming part or the length of the field label. As such please communicate first before proceeding further and DO NOT simply assume I will accept what you have written as final.
- For those fields not specified but necessary to be listed in the input screen, please create a document to explain what those fields are for and how to use them (including what value means what in plain english and not programming jargon) when you send me the .ex5 file. DO NOT simply send me something without detail explanation.
- If you need a lot more time to complete the work than originally stated, please communicate first. I normally grant extension cause I expect good finishing quality, so you can take the right time to deliver the expected result
- If there is problem in the program that you cannot deliver part(s) of the requirement, please explain the reason upfront, DO NOT assume I will accept incomplete program and will make full payment. I shortlisted you as your profile shows promising work ethic and quality, so please do not disappoint me and waste my time to stress these points.
- If you don't think you can follow the above, please do not accept the deal. I expect professional work ethic and quality, not something out of high school.

General Informtion

- Modify standard zigzag indicator and stochastic ocillator or create new set of indicator.
- For EA the settings need to be hardcoded.
- There are 3 zigzags and one osicllator required (the parameters values will be given for each of the four indicators when your order is confirmed)
- Note that zigzag is a lagging indicator thus the peak may form only after the one or more new candles have been formed.
- There are two requirments for the same EA program unless you have problem include in a single program. The input screen will be divided into Section 1 and Section 2
- Requirement 3 is the indicator

Requirement 1 (EA)

- Requirement 1 (EA):
 - Auto trigger of order for EA (both conditions need to be met)
 - When all 3 zigzags (yellow dotted, green and red lines) converge into single price point, and orders can be trigger on current market price. I understand the market pice may not be the next candle after the peak candle and mybe a few candles further, this is acceptable.
 - When stohastic oscillator below 10 (for buy) or above 90 (for sell)
 - Arrow to be shown on chart on the order triggered (size and colour of the arrow need to be modifieable)
 - Zig zag lines also need to be shown for the convergence.(colour and style/width) of the lines need to be modifiable
 - Trailing stop running when floating profit reach the predetermined number of pips
 - Auto closing of Order
 - When 2 zigzags lines converge (green and red lines). I udnerstand that the closing candle may not be the candle after the peak and mybe a few candle further, this is acceptable
 - DO NOT give me a field for number of fixed pips for TP for input. That is not the correct logic for requirement 1. The auto TP logic is as per stated, which is when convergence of red and green lines happen
 - Refer to Section 1 of the EA input screen shown

Input Screen for EA (Section 1)

A)	Input Requirement for EA		
	Section 1	-----	
1)	Order Managment (Market Order)	-----	
	No of order to be triggered		
	Lot Size		
	No of SL (Pips)		Read Note 3
	No of TS (Pips)		Read Note 3
2)	Time Frame for EA to run		Read Note 1
	Arrow Features	-----	
	Arrow Size	1-3 drop down	
3)	Arrow colour	Selection values as per standard	
	Notification Features	-----	
	Trade Open Pop up Alert	True/False	Read Note 2
	Trade Open Mobile Notification	True/False	Read Note 2
	Trade Close Pop up Alert	True/False	Read Note 2
	Trade Close Mobile Notification	True/False	Read Note 2

*Note:									
1) The TF field is required for the EA to run in the spefic timeframe even though I navigate to another timeframe on the same chart									
You need to let me know before hand if this is possible. I will not accept after you have completed the program and simply telling me to attach									
to the specific TF chart. This is because I open many charts for different pairs at the same time.									
2) Alert when trade is triggered									
3) The number of pips means exclude the very last digit of the pairs in the calculation									

Colour Input Tab)

Input for Colours	
ZigZag 1	Colours/Width/Style
ZigZag 2	Colours/Width/Style
ZigZag 3	Colours/Width/Style

Requirement 1 Snapshot (EA)



• **Requirement 2 (EA):**

- When the 3zz points coverage and stochastic is below 10 or above 90. locate the peak candle
- Note that the convergence may happen only next few candles move further, so you may need to locate the peak candle backward
- Get the open and close price then calculate 50%, which is the middle price point of the candle (point A)
 - Example AUDCHF - Assume Open / Close price are : 0.61858/0.61731
 - So middle point of the peak candle will be = 0.61795 (This is Point A)
- Calculate the distance between the wick of the candle (point B) to point A. Wick means either the highest point of the candle (if the convergence happens at the top) or the lowest point (if the convergence happens at the bottom) If there is no wick take the closing price as point B
 - Example AUDCHF, Point B is 0.61601
 - Distance from Point A to Point B = $0.61795 - 0.61601 = 0.00194$
- Then divide the distance into 5 equal area. Point A and Point B. The line increment would be the following calculation
 - Distance is $0.00194 / 5 = 0.000388$ (incremental value)
 - Thus besides the point A and point B lines, you would also have 4 other lines in between with the above increment
 - Total of 6 lines with above example would be 0.61601, 0.61640, 0.61679, 0.61717, 0.61756, 0.61795
- Based on the entry of the field (No of Candle Forward drawn), draw the lines. The length of the lines will be based on number of bars entered. Example 50, then the line length will be from the peak candle extend to the right for next 50 candles Lines Colour/style/width are as per the value entered.
- Then create limit order (not market order) for buy or sell for each of the lines
- So there will be total 6 limit orders with each having the lot size specified, even if some cases the distance can be very near. This is acceptable
- Then alert should be triggered for the limit orders created - 6 alerts for each for the pairs for limit order creation (<pair>, Order Open Alert @ <price>, <timeframe>).
- When each of limit order is triggered to be active, an alert is to be sent (<pair>, Trade Open Alert @ <price>, <timeframe>)
- The TP in this requirement will be based on the no of pips entered (different logic from requirement 1)
- When the active trade hit TP or SL, an alert is to be sent (Trade Close alert),
- The TS will be auto triggered when the profit run according to the pips entered.
- Refer to requirement 2 snapshot and section 2 of the EA input screen shown.

Input Screen for EA (Section 2)

Section 2		-----				
1) Order Managment (limit order)						
Lot Size						
No of SL (Pips)			Read note 3			
No of TS (Pips)			Read note 3			
No of TP (pips)			Read note 3			
Time Frame for EA to run			Read Note 1			
No of candle forward drawn						
Line Colour						
Line Style						
Line Width						
2) Notification Features						
Order Open Pop up Alert		True/False				
Order Open Mobile Notification		True/False				
Trade Open Pop up Alert		True/False				
Trade Open 'Mobile Notification		True/False				
Trade Close Pop up Alert		True/False				
Trade Close Mobile Notification		True/False				
*Note:						
1) The TF field is required for the EA to run in the specific timeframe even though I navigate to another timeframe on the same chart						
You need to let me know before hand if this is possible. I will not accept after you have completed the program and simply telling me to attach						
to the specific TF chart. This is because I open many charts for different pairs at the same time.						
2) Alert when trade is triggered						
3) The number of pips means exclude the very last digit of the pairs in the calculation						

Input for Colours	
ZigZag 1	Colours/Width/Style
ZigZag 2	Colours/Width/Style
ZigZag 3	Colours/Width/Style

Requirement 2 Snapshot (EA)- Buy Limit Order Example



Requirement 2 Snapshot (EA)- Sell Limit Order example



Requirment 3 (Indicator)

- Create one set of indicator below for manual trade
- Similar to Requirement 1 but without the auto trade part. just alert when the 3zz point and stochastic met

B) Input Requirement for Indicator			
1) Zig Zag 1			
Depth	-----		Read Note 1
Deviation			Read Note 1
Backtest			Read Note 1
Colour	Selection values as per standard		
Colour Style	Selection values as per standard		
Colour Width	Selection values as per standard		
Zig Zag 2			
Depth			Read Note 1
Deviation			Read Note 1
Backtest			Read Note 1
Colour	Selection values as per standard		
Colour Style	Selection values as per standard		
Colour Width	Selection values as per standard		
Zig Zag 3			
Depth			Read Note 1
Deviation			Read Note 1
Backtest			Read Note 1
Colour	Selection values as per standard		
Colour Style	Selection values as per standard		
Colour Width	Selection values as per standard		
Stoch Oscillator			
%K period			Read Note 1
%D period			Read Note 1
Slowing			Read Note 1
Method			Read Note 1
Price field			Read Note 1
Levels			Read Note 1
Colour	Selection values as per standard		
Colour Style	Selection values as per standard		
Colour Width	Selection values as per standard		
Scale			
Fixed Minimum			Read Note 1
Fixed Maximum			Read Note 1
Arrow Features			
Arrow Size	1-3 drop down		
Arrow colour	Selection values as per standard		
Notification Features			
Condition Met Pop up Alert			
Condition Met Mobile Notification			

*Note:			
1) Please revert if this can be done before you proceed			
I need you to write a logic to mask the setting with **** and			
can only be viewed/edit with spedific password. If cannot then hardcode			
into the program and remove from the input screen. Reason is the settings are proprietary			
after long manual research and I intend to sell this indicator. This is to prevent piracy			
Input for Colours			
ZigZag 1	Colours/Width/Style		
ZigZag 2	Colours/Width/Style		
ZigZag 3	Colours/Width/Style		