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Function iAOfunc for MQL4.

Standard function **iAO** (http://docs.mql4.com/indicators/iAO) is calculated by formula:

AO = SMA(MEDIAN, 5) - SMA(MEDIAN, 34)
where:
MEDIAN   - median price,
SMA   - simple moving average,
5, 34   - periods.

<u>without</u> the possibility to choose price, moving average and periods.

Function **iAOfunc** allows calculate value with possibility to choose price, moving average and periods according to the following formula:

AO = MA_mode (Applied_price, Period_1) - MA_mode (Applied_price, Period_2)

---

double iAOfunc (string Sy, int Tf, int MA_mode, int Applied_price, int Period_1, int Period_2, int Shift)

Parameters:
Sy   - Symbol the data of which should be used to calculate indicator.
                   NULL means the current symbol.
Tf   - Timeframe. It can be any of timeframe enumeration values
                   (http://docs.mql4.com/constants/timeframes). 0 means the current chart timeframe.
MA_mode   - MA method. It can be any of the moving average method enumeration value
                   (http://docs.mql4.com/constants/movings).
Applied_price - Applied price. It can be any of applied price enumeration values
                   (http://docs.mql4.com/constants/prices)
Period_1   - Averaging period for calculation 1st moving average.
Period_2   - Averaging period for calculation 2nd moving average.
Shift   - Index of the value taken from the indicator buffer (shift relative to the current bar
                   the given amount of periods ago).

<u>Example 1.</u>
Symbol   - current chart (NULL),
Timeframe   - current chart (0),
MA method   - exponential moving average (MODE_EMA),
Applied price   - close (PRICE_CLOSE),
Period 1   - 7,
Period 2   - 35,
Index of the value taken from the indicator buffer - 0.

```
double result=iAOfunc(NULL, 0, MODE_EMA, PRICE_CLOSE, 7, 35, 0);
```

Example 2.

Symbol   - GBPUSD,
Timeframe   - H4 (PERIOD_H4),
MA method   - smoothed moving average (MODE_SMMA),
Applied price   - high (PRICE_HIGH),
Period 1   - 3,
Period 2   - 14,
Index of the value taken from the indicator buffer - 5.

```
double result=iAOfunc("GBPUSD", PERIOD_H4, MODE_SMMA, PRICE_HIGH, 3, 14, 5);
```

How to include custom function into program
(e.g. expert, script) in MQL4.

The compiled file-library "iAOfunc.ex4" must be copied into directory *MT4_directory\experts\libraries* . In code of the program before input parameters operator *#import* must to be used (http://docs.mql4.com/basis/preprosessor/import).

Example.

```
//+------------------------------------------------------------------+
#import "iAOfunc.ex4"
double iAOfunc(string Sy,int Tf,int MA_mode,int Applied_price,
               int Period_1,int Period_2,int Shift);
#import

//+------------------------------------------------------------------+
int init()    { return(0); }
//+------------------------------------------------------------------+
int start()
{
//----
// Body of program
//----
return(0);
}
//+------------------------------------------------------------------+
int deinit() { return(0); }
//+------------------------------------------------------------------+
```