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//+-----+
//|                                     6F-v1.mq4 |
//| Copyright 2018, Andrae Delisser |
//| https://dredel7.github.io |
//+-----+
#property copyright "Copyright 2017, Andrae Delisser"
#property link      "https://dredel7.github.io"
#property version   "1.00"
#property strict

//Last updated November 23, 2018

//Extern Parameters
extern int      EAMagicNumber=4389; // Magic Number
extern double   lot=0.01;
extern double   PcntAcc=0.15; //Percent of free margin to trade

extern int      StartTime=12; //Time trading can be done
extern int      EndTime=17;

//string symb;

//+-----+
//| Expert initialization function |
//+-----+
int start()

{
    //double ma=0;
    double TakeProfit=30;
    double StopLoss=35;
    double RSIValue=0;
    double Lots=0;
    int MACD4_result=0;
    int MACDD_result=0;
    int rsi=0;
    int dailyCandle=0;
    int hourlyCandle=0;
    bool Blpower;
    bool Brpower;
    int tradetime;

    int factorTotal; //Total for Buy

    int ticket, total; //count;

    //Setting preferred time for trading variables
    tradetime=Hour();

    if((tradetime<=StartTime || tradetime>EndTime))
        return(0);

    // Define Daily MACD conditions

    if(iMACD(NULL,PERIOD_D1,12,26,9,PRICE_CLOSE,MODE_MAIN,0)>iMACD(NULL,PERIOD_D1,12,26,9,
PRICE_CLOSE,MODE_SIGNAL,0) )//MACD crosses signal line

        {MACDD_result=2;
        }

    else if(iMACD(NULL,PERIOD_D1,12,26,9,PRICE_CLOSE,MODE_MAIN,0)<iMACD(NULL,PERIOD_D1,12,26,
9,PRICE_CLOSE,MODE_SIGNAL,0))//MACD goes below signal line
    {
        MACDD_result=-2;
    }
}

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    }

else
{
    MACDD_result=0;
}

double val=NormalizeDouble(iBullsPower(NULL, 0, 13,PRICE_CLOSE,0),5);
// Bear power for 4 hour timeframe

if(val<0)
{
    Blpower=1;
}
else
{
    Blpower=0;
}

double val2=NormalizeDouble(iBearsPower(NULL, 0, 13,PRICE_CLOSE,0),5);
//Bulls power for 4 hour timeframe

if(val2>0)
{
    Brpower=-1;
}
else
{
    Brpower=0;
}
//Alert(Symbol()," Bullspower,Bearspower=", val," ", val2);*/

// Define 4 Hour MACD conditions

if(iMACD(NULL,PERIOD_H4,12,26,9,PRICE_CLOSE,MODE_MAIN,0)>iMACD(NULL,PERIOD_H4,12,26,9,
PRICE_CLOSE,MODE_SIGNAL,0) )//MACD crosses signal line
{
    MACD4_result=1;
}

else if(iMACD(NULL,PERIOD_H4,12,26,9,PRICE_CLOSE,MODE_MAIN,0)<iMACD(NULL,PERIOD_H4,12,26,
9,PRICE_CLOSE,MODE_SIGNAL,0))//MACD goes below signal line
{
    MACD4_result=-1;
}

else
{
    MACD4_result=0;
}

//define RSI
RSIValue=iRSI(NULL,PERIOD_H1,14,PRICE_CLOSE,0);

if (RSIValue<=30)
{
    rsi=2;
}

else if (RSIValue>=70)
{
    rsi=-2;
}
else
{
    rsi=0;
}

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//Daily candle Bull or Bear
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// here we determine if we have a daily bull candle
if((iClose(Symbol(), PERIOD_D1, 0)) > (iOpen(Symbol(), PERIOD_D1, 0)))
//If Close greater than Open
{
    dailyCandle=1;
}

// here we determine if we have a daily Bear candle
else if(( iClose(Symbol(), PERIOD_D1, 0)) < (iOpen(Symbol(), PERIOD_D1, 0)) )
{
    dailyCandle=-1;
}
else
{
    dailyCandle=0;
}

//Hourly Candle

// here we determine if we have a bull candle
if(( iClose(Symbol(), PERIOD_H1, 0)) > (iOpen(Symbol(), PERIOD_H1, 0)))
//If Close greater than Open
{
    hourlyCandle=1;
}

// here we determine if we have a daily Bear candle
else if(( iClose(Symbol(), PERIOD_H1, 0)) < (iOpen(Symbol(), PERIOD_H1, 0)) )
{
    hourlyCandle=-1;
}
else
{
    hourlyCandle=0;
}

// Alert(Symbol(),"hourlyCandle=", hourlyCandle);
// Alert(Symbol(),"dailyCandle=", dailyCandle);

// Opening Orders

// Check to ensure no more than 3 orders are running con-currently
total=OrdersTotal();
//Alert(total);

if(total >=2)

    return(0);

//Margin Accounting
if(AccountFreeMargin()<PcntAcc*AccountEquity())
{
    //Alert("Insufficient margin for trading. Free Margin= ", AccountFreeMargin());
}
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//Alert(AccountEquity());
return(0);
}

//+-----+
//|                                     |
//|                                     |
//+-----+

//Criterion for Buy

Lots=NormalizeDouble((lot+ AccountFreeMargin()*0.08)/350,2);
//Trade 10% (+0.01) Of Free Margin in the Account, Rounded to d.p.

//Alert(Lots);

factorTotal=(MACD4_result + rsi + dailyCandle + hourlyCandle + MACDD_result+Blpower+ Brpower
);

if(factorTotal>=5)
{
    ticket=OrderSend(Symbol(),OP_BUY,Lots,Ask,3,Ask-StopLoss*Point*10,Ask+TakeProfit*Point*
10,"EAMagicNumber6f",4389,0,Green);
    if(ticket>1)
    {
        return(0);
    }
}

//+-----+
//|                                     |
//|                                     |
//+-----+

//Criterion for Sell

if(factorTotal<=-5)
{
    ticket=OrderSend(Symbol(),OP_SELL,Lots,Bid,3,Bid+StopLoss*Point*10,Bid-TakeProfit*Point*
10,"EAMagicNumber6f",4389,0,Red);

    if(ticket>1)
    {
        return(0);
    }
}

// Alert(Symbol()," factorTotal,rsi=", factorTotal,"", rsi);
return(0);

}

//The End.

```