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#property copyright "Copyright 2020, MetaQuotes Software Corp."
#property link "https://www.mql5.com"
#property version
                   "1.00"
//+----Ms ROBOT: robotfx.mt5@gmail.com-
// KHAI BAO THU VIEN
#include<Trade\Trade.mgh>
#include <Trade\SymbolInfo.mqh>
#include <Object.mqh>
CTrade trade;
//| Expert initialization function
int OnInit()
  return(INIT SUCCEEDED);
//| Expert deinitialization function
void OnDeinit(const int reason)
//+----Ms ROBOT: robotfx.mt5@gmail.com--
//| Expert tick function
input int
                        TP=600; //Take Profit(Point)
input int
                        SL=600; //Stoploss (Point)
input double
                        Volume=0.05; //Volume
input int
                        TotalTarget=200; //Target $
                        CMDTarget=20; //Target $
input int
int
         cmd = 0;
int
        Reset = 0;
        SumProfit = 0;
       Label = "Start";
string
string PLabel = "";
        Signal = "";
string
float
       MACD= 0;
float
        MACDmax = 0;
float MACDmin= 0;
     B=0:
int
int
     S = 0;
      T= 0;
int
```

```
double Bid = 0;
        Ask = 0;
double
int
       Start = 0;
double TotalProfit = 0;
double BalanceOut = 0;
double BalanceIn = 0;
double BalanceSave = 0;
       -----Ms ROBOT: robotfx.mt5@gmail.com-
                                         MS. ROBO
void OnTick()
  if(Start == 0 && MACD == 0)
     BalanceIn=AccountInfoDouble (ACCOUNT BALANCE);
     BalanceSave=AccountInfoDouble(ACCOUNT BALANCE);
     Start = 1;
     MACDmax= MACD;
     MACDmin= MACD;
  CheckCMD();
  if(cmd == 0 \&\& Reset == 2)
     BalanceOut=AccountInfoDouble(ACCOUNT BALANCE);
     TotalProfit = NormalizeDouble(BalanceOut - BalanceIn, 2);
     if (BalanceSave > BalanceOut)
     {F++;}
     if (BalanceSave < BalanceOut)</pre>
     {W++;}
     MACDmax= MACD;
     MACDmin= MACD;
     Reset = 0;
     BalanceSave = BalanceOut;
     Signal = "";
     Label = "Start";
  if(TotalProfit + SumProfit >= TotalTarget)
     {
        Label = "Stop, Full Target";
        SumProfit = TotalProfit + SumProfit;
        TotalProfit = SumProfit;
        Clean();
       ExpertRemove();
  Check MACD();
  CheckBuySell();
  Show();
      -----Ms ROBOT: robotfx.mt5@gmail.com---
void CheckCMD()
```

```
cmd = 0;
                  SumProfit = 0;
                  if (PositionSelect( Symbol) == true)
                            for(int i=PositionsTotal()-1; i>=0;i--)
                                    ulong PositionTicket=PositionGetTicket(i);
                                     string PositionSymbol=PositionGetString(POSITION SYMBOL);
                                    double ProfitSymbol = PositionGetDouble(POSITION PROFIT);
                                    ENUM POSITION TYPE PositionType = (ENUM POSITION TYPE)
PositionGetInteger(POSITION TYPE);
                                     if (PositionSymbol == Symbol)
                                              cmd++;
                                              SumProfit = SumProfit + ProfitSymbol;
                            }
                  if(cmd == 2 && SumProfit > 0)
                           Clean();
                  if(SumProfit > CMDTarget)
                           Clean();
                                        --Ms ROBOT: robotfx.mt5@gmail.com-
void Check MACD()
 //--- CHECK MACD ---
                  double myPriceArray[];
                  int MACDDefinition = iMACD(\( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \) \( \
                  ArraySetAsSeries (myPriceArray, true);
                  CopyBuffer (MACDDefinition, 0, 0, 5, myPriceArray);
                  MACD = myPriceArray[0];
                  float M1 = myPriceArray[1];
                  float M2 = myPriceArray[2];
                           if(MACD > 0 \&\& M1 > M2)
                                     Signal = "Buy, Up Trend";
                           if(MACD < 0 \&\& M1 < M2)
                                     Signal = "Sell, Down Trend";
                            if (MACD > 0 && M1 < M2)
                                     Signal = "Sell, Turning";
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if(MACD < 0 \&\& M1 > M2)
            Signal = "Buy, Turning";
      if (MACD > MACDmax)
         MACDmax = MACD;
      if (MACD < MACDmin)</pre>
         MACDmin = MACD;
               -Ms ROBOT: robotfx.mt5@gmail.com-
void CheckBuySell()
         Ask = SymbolInfoDouble(Symbol(), SYMBOL ASK);
         Bid = SymbolInfoDouble(Symbol(), SYMBOL BID);
         MglRates PriceInformation[];
         ArraySetAsSeries(PriceInformation, true);
         double Data=CopyRates(Symbol(), Period(), 0, Bars(Symbol(), Period()),
PriceInformation);
         if (Bid < PriceInformation[1].low && Bid < PriceInformation[2].low)</pre>
            PLabel = "Down";
         if(Ask > PriceInformation[1].high && Ask > PriceInformation[2]
.high)
            PLabel = "Up";
         A \supset A
         if(cmd == 0)
            if(Signal == "Buy, Up Trend" || Signal == "Buy, Turning")
                   if(PLabel == "Up")
                      double BuyTP = NormalizeDouble(Ask + TP* Point, 5);
                      double BuySL = NormalizeDouble(Ask - SL* Point, 5);
                      trade.Buy(Volume, NULL, Ask, BuySL, BuyTP, NULL);
                      Label = "Buy Action";
            if(Signal == "Sell, Down Trend" || Signal == "Sell, Turning")
                   if(PLabel == "Down")
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double SellTP = NormalizeDouble(Bid - TP* Point, 5);
                     double SellSL = NormalizeDouble(Bid + SL* Point, 5);
                     trade.Sell(Volume, NULL, Bid, SellSL, SellTP, NULL);
                     Label = "Sell Action";
                     S++;
  MS. ROBOT }
         if(cmd == 1)
            if (Label == "Buy Action" && Signal == "Sell, Turning" &&
SumProfit > 0.5*CMDTarget)
               Clean(); T++;
            if (Label == "Sell Action" && Signal == "Buy, Turning" &&
SumProfit > 0.5*CMDTarget)
               Clean(); T++;
      if(cmd > 0)
         Reset = 2;
void Clean()
      trade.PositionClose(Symbol(), 3); // Cấu trúc xóa lệnh
//+----Ms ROBOT: robotfx.mt5@gmail.com---
void Show()
       string mtext = (string)MACDmin + " < " +</pre>
                        (string) MACD + " < " +
                        (string) MACDmax + "\n";
      Comment (
               "[TotalProfit] " , (string)TotalProfit , " / ", (string)
TotalTarget ," ($) \n",
               "Win/ Fail: ", (string) W, " / ", (string) F, "\n",
               "Buy/ Sell/ Turning: ", (string)B, " / ", (string)S,
 (string) T, "\n",
               "Signal: ", Signal, "\n",
               "MACD: ", mtext,
               Label, ": ", (string) SumProfit, " ($) \n"
               Sleep(500); // Dùng 0.5s
  MS ROBOT - robotfx.mt5@gmail.com
```