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property link     "https://zyunafx.com/"
property version  "1.00"
#property strict

//---パラメーター設定


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        }
    }

}//OnTick
//-----
void OnDeinit(const int reason) { //EA削除時に最後に動くプログラム
} //-----
//----- //オリジナル関数
//ポジション調整
double AdjustPoint(string Currency) {
    int SymbolDigits=(int)MarketInfo(Currency, MODE_DIGITS);
    double CalculatedPoint=0.0;
    if(SymbolDigits==2 || SymbolDigits==3) {
        CalculatedPoint=0.01;
    } else
    if(SymbolDigits==4 || SymbolDigits==5) {
        CalculatedPoint=0.0001;
    }
    return(CalculatedPoint);
}

//スリッページ調整
double AdjustSlippage(string Currency, int SlippagePips) {
    double CalculatedSlippage=0.0;
    int SymbolDigits=(int)MarketInfo(Currency, MODE_DIGITS);
    if(SymbolDigits==2 || SymbolDigits==3) {
        CalculatedSlippage=SlippagePips;
    } else
    if(SymbolDigits==4 || SymbolDigits==5) {
        CalculatedSlippage=SlippagePips*10;
    }
    return(CalculatedSlippage);
}

//ポジション数を取得
int Position(int PositionDirection) {
    int res=0;
    for(int i=0;i<OrdersTotal();i++) {
        if(OrderSelect(i, SELECT_BY_POS, MODE_TRADES)==true) {
            if(OrderSymbol() == _Symbol && OrderMagicNumber() == MagicNumber) {
                if(PositionDirection==1) {
                    if(OrderType() == OP_BUY) res++;
                } else
                    if(PositionDirection== -1) {
                        if(OrderType() == OP_SELL) res++;
                    }
                }
            }
        }
    return(res);
}

//ポジションエントリー関数
void OpenOrder(int EntryPosition) {
    int res=0;
    double TP=TakeProfit*Pips;
    double SL=StopLoss*Pips;
    if(EntryPosition==1) {
        res=OrderSend(_Symbol, OP_BUY, Lots, Ask, SLP, Ask-SL, Ask+TP, comment, MagicNumber, 0, clrBlue);
    } else
    if(EntryPosition== -1) {
        res=OrderSend(_Symbol, OP_SELL, Lots, Bid, SLP, Bid+SL, Bid-TP, comment, MagicNumber, 0, clrRed);
    }
}

//ポジションクローズ関数
void CloseOrder(int ClosePosition) {
    int res=0;
    for(int i=OrdersTotal()-1;i>=0;i--) {
        if(OrderSelect(i, SELECT_BY_POS, MODE_TRADES)==true) {
            if(OrderSymbol() == _Symbol && OrderMagicNumber() == MagicNumber) {
                if(OrderType() == OP_BUY && ClosePosition==1) {
                    res=OrderClose(OrderTicket(), OrderLots(), OrderClosePrice(), SLP, clrMagenta);
                } else
                    if(OrderType() == OP_SELL && ClosePosition== -1) {
                        res=OrderClose(OrderTicket(), OrderLots(), OrderClosePrice(), SLP, clrMagenta);
                    }
                }
            }
        }
    }
}

//トレーリングストップ
void TrailingStop() {
    double TSP;
    int res=0;
    for(int i=OrdersTotal()-1;i>=0;i--) {
        if(OrderSelect(i, SELECT_BY_POS, MODE_TRADES)==true) {
            if(OrderSymbol() == _Symbol && OrderMagicNumber() == MagicNumber) {
                if(OrderType() == OP_BUY) {
                    TSP=Ask-TrailingPips*Pips;
                    if(OrderOpenPrice()<TSP && OrderStopLoss()<TSP) {
                        res=OrderModify(OrderTicket(), OrderOpenPrice(), TSP, 0, 0, clrYellow);
                    }
                } else
                    if(OrderType() == OP_SELL) {
                        TSP=Bid+TrailingPips*Pips;
                        if(OrderOpenPrice()>TSP && OrderStopLoss()>TSP) {
                            res=OrderModify(OrderTicket(), OrderOpenPrice(), TSP, 0, 0, clrYellow);
                        }
                    }
                }
            }
        }
    }
}

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        }
    }
}

//ボリンジャーバンドクロス（順）
int BBCross1() {
    int judge=0;
    double MA1=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 1);
    double MA2=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 2);
    double BU1=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_UPPER, 1);
    double BU2=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_UPPER, 2);
    double BL1=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_LOWER, 1);
    double BL2=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_LOWER, 2);

    if(MA2<=BU2 && BU1<MA1) judge=1;
    if(MA2>=BL2 && BL1>MA1) judge=-1;

    return(judge);
}

//ボリンジャーバンドクロス（逆）
int BBCross2() {
    int judge=0;
    double MA1=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 1);
    double MA2=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 2);
    double BU1=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_UPPER, 1);
    double BU2=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_UPPER, 2);
    double BL1=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_LOWER, 1);
    double BL2=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_LOWER, 2);

    if(MA2>=BU2 && BU1>MA1) judge=1;
    if(MA2<=BL2 && BL1<MA1) judge=-1;

    return(judge);
}

//ボリンジャーバンドクロス（中）
int BBCross3() {
    int judge=0;
    double MA1=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 1);
    double MA2=iMA(_Symbol, 0, MAPeriod, 0, MAMethod, MAPrice, 2);
    double BM1=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_MAIN, 1);
    double BM2=iBands(_Symbol, 0, BBPeriod, BBDeviation, 0, BBPrice, MODE_MAIN, 2);

    if(MA2<=BM2 && BM1<MA1) judge=1;
    if(MA2>=BM2 && BM1>MA1) judge=-1;

    return(judge);
}

```