

```
//2MA Cross EA.mq4
```

```
#property strict
```

```
#property copyright"詳解MT4"
```

```
#property link"http://mt4-traders.com"
```

#property命令を記述

```
//変数の宣言
```

```
input int Magic           = 1111; //マジックナンバー
input int FMA_Period      = 12; //短期移動平均線の計算期間
input int SMA_Period      = 26; //長期移動平均線の計算期間
input int MA_Mode         = 0; //移動平均線の種類
input int Applied_Price   = 0; //適用価格
input double Lots         = 0.1; //取引ロット数
input int Slippage        = 10; //スリッページ
input string Comments     = "2MA Cross EA"; //コメント
```

```
double FMA_1 = 0;
```

```
double FMA_2 = 0;
```

```
double SMA_1 = 0;
```

```
double SMA_2 = 0;
```

```
int Ticket = 0;
```

```
int Adjusted_Slippage = 0;
```

```
datetime Bar_Time = 0;
```

```
bool Closed = false;
```

```
//関数の定義
```

```
int AdjustSlippage(string Currency,int Slippage_Pips)
```

```
{
    int Calculated_Slippage = 0;
```

```
    int Symbol_Digits =
```

```
    (int)MarketInfo(Currency,MODE_DIGITS);
```

```
    if(Symbol_Digits == 2 || Symbol_Digits == 4)
```

```
    {
        Calculated_Slippage = Slippage_Pips;
```

```
    }
    else if(Symbol_Digits == 3 || Symbol_Digits == 5)
```

```
    {
        Calculated_Slippage = Slippage_Pips * 10;
```

```
    }
    return(Calculated_Slippage);
}
```

関数を定義

```
int OnInit()
```

```
{
    Adjusted_Slippage =
```

```
    AdjustSlippage(Symbol(),Slippage);
```

初期設定を記述

```
    return(INIT_SUCCEEDED);
}
```

```
void OnTick()
```

```
{
    //バーの数をチェック
```

```
    if(Bars < SMA_Period)
```

```
    {
        return;
    }
```

```
    //始値か否かのチェック
```

```
    if(Bar_Time == Time[0])
```

```
    {
        return;
    }
```

```
    else if(Bar_Time != Time[0])
```

```
    {
        Bar_Time = Time[0];
    }
```

```
    //インジケータの値の計算
```

```
    FMA_1 = iMA(Symbol(),0,FMA_Period,0,MA_Mode,
```

```
        Applied_Price,1);
```

```
    FMA_1 = NormalizeDouble(FMA_1,Digits);
```

```
    FMA_2 = iMA(Symbol(),0,FMA_Period,0,MA_Mode,
```

```
        Applied_Price,2);
```

```
    FMA_2 = NormalizeDouble(FMA_2,Digits);
```

```
    SMA_1 = iMA(Symbol(),0,SMA_Period,0,MA_Mode,
```

```
        Applied_Price,1);
```

```
    SMA_1 = NormalizeDouble(SMA_1,Digits);
```

```
    SMA_2 = iMA(Symbol(),0,SMA_Period,0,MA_Mode,
```

```
        Applied_Price,2);
```

```
    SMA_2 = NormalizeDouble(SMA_2,Digits);
```

```
    //クローズ処理
```

```
    //ロングポジションクローズ
```

```
    if(FMA_2 >= SMA_2 && FMA_1 < SMA_1 &&
```

```
        Ticket > 0)
```

```
    {
        Closed =
```

```
        OrderClose(Ticket,Lots,Bid,
```

```
            Adjusted_Slippage,Magenta);
```

```
        if(Closed == true)
```

```
        {
            Ticket = 0;
```

```
        }
    }
```

```
    //ショートポジションクローズ
```

```
    else if(FMA_2 <= SMA_2 && FMA_1 > SMA_1 &&
```

```
        Ticket > 0)
```

```
    {
        Closed =
```

```
        OrderClose(Ticket,Lots,Ask,
```

```
            Adjusted_Slippage,Aqua);
```

```
        if(Closed == true)
```

```
        {
            Ticket = 0;
```

```
        }
    }
```

```
    //エントリー処理
```

```
    //ロングエントリー
```

```
    if(FMA_2 <= SMA_2 && FMA_1 > SMA_1 &&
```

```
        OrdersTotal() == 0)
```

```
    {
        Ticket =
```

```
        OrderSend(Symbol(),OP_BUY,Lots,Ask,
```

```
            Adjusted_Slippage,0,0,Comments,
```

```
            Magic,0,Magenta);
```

```
    }
```

```
    //ショートエントリー
```

```
    if(FMA_2 >= SMA_2 && FMA_1 < SMA_1 &&
```

```
        OrdersTotal() == 0)
```

```
    {
        Ticket =
```

```
        OrderSend(Symbol(),OP_SELL,Lots,Bid,
```

```
            Adjusted_Slippage,0,0,Comments,
```

```
            Magic,0,Aqua);
```

```
    }
```

```
}
```

具体的な売買ロジックを記述

変数を宣言