

```
//Break Out EA.mq4
```

```
#property copyright"詳解MT4"
```

← #property命令を記述

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

```
//変数の宣言
```

```
extern int Magic = 1515;
```

```
extern int Break_Period = 24;
```

```
extern double Lots = 0.1;
```

```
extern int Slippage = 10;
```

```
extern string Comments = "Break Out";
```

```
extern int Trailing_Stop = 50;
```

← 変数を宣言

```
int Buy_Ticket = 0;
```

```
int Sell_Ticket = 0;
```

```
double Pips = 0;
```

```
int Adjusted_Slippage = 0;
```

```
//関数の定義
```

```
double AdjustPoint(string Currency)
```

```
{  
    int Symbol_Digits = (int)MarketInfo(Currency,MODE_DIGITS);
```

```
    if(Symbol_Digits == 2 || Symbol_Digits == 3)
```

```
    {  
        double Calculated_Point = 0.01;
```

```
    }  
    else if(Symbol_Digits == 4 || Symbol_Digits == 5)
```

```
    {  
        Calculated_Point = 0.0001;
```

```
    }  
    return(Calculated_Point);  
}
```

← 関数を定義

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

```
{  
    int Symbol_Digits = (int)MarketInfo(Currency,MODE_DIGITS);
```

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

```
    {  
        int Calculated_Slippage = Slippage_Pips;
```

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

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

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

```
int init()
```

```
{  
    Pips = AdjustPoint(Symbol());
```

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

← 初期設定を記述

```
    return(0);  
}
```

```
int start()
```

```
{  
    //チケット番号の初期化
```

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

```
    {  
        Buy_Ticket = 0;
```

```
        Sell_Ticket = 0;  
    }  
}
```

```
//クローズ処理
```

```
//ポジション保有の確認
```

```
if(OrderSelect(0,SELECT_BY_POS,MODE_TRADES) == true)
```

```
{  
    //ロングポジションクローズ
```

```
    if(OrderType() == OP_BUY)
```

```
    {  
        if(Close[0] < Low[iLowest(Symbol(),0,MODE_LOW,Break_Period,1)] &&  
            OrderCloseTime() == 0)
```

```
        {  
            bool Closed = OrderClose(OrderTicket(),OrderLots(),OrderClosePrice(),  
                Adjusted_Slippage,Magenta);
```

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

```
        {  
            Buy_Ticket = 0;
```

```
        }  
    }  
}
```

```
//ショートポジションクローズ
```

```
else if(OrderType() == OP_SELL)
```

```
{  
    if(Close[0] > High[iHighest(Symbol(),0,MODE_HIGH,Break_Period,1)] &&  
        OrderCloseTime() == 0)
```

```
    {  
        Closed = OrderClose(OrderTicket(),OrderLots(),OrderClosePrice(),  
            Adjusted_Slippage,Aqua);
```

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

```
    {  
        Sell_Ticket = 0;
```

```
    }  
}
```

```
//エントリー処理
```

```
//ロングエントリー
```

```
if(Close[0] > High[iHighest(NULL,0,MODE_HIGH,Break_Period,1)] &&  
    OrdersTotal() == 0)
```

```
{  
    Buy_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(Close[0] < Low[iLowest(NULL,0,MODE_LOW,Break_Period,1)] &&  
    OrdersTotal() == 0)
```

```
{  
    Sell_Ticket = OrderSend(Symbol(),OP_SELL,Lots,Bid,Adjusted_Slippage,  
        0,0,Comments,Magic,0,Aqua);
```

```
}
```

```
//トレーリングストップ
```

```
if(Buy_Ticket > 0 || Sell_Ticket > 0)
```

```
{  
    for(int i = OrdersTotal() - 1; i >= 0; i--)
```

```
    {  
        if(OrderSelect(i,SELECT_BY_POS,MODE_TRADES) == true)
```

```
        {  
            //買いポジションの場合
```

```
            if(OrderType() == OP_BUY)
```

```
            {  
                double Max_Stop_Loss = Bid - Trailing_Stop * Pips;
```

```
                Max_Stop_Loss =  
                    NormalizeDouble(Max_Stop_Loss,  
                        (int)MarketInfo(Symbol(),MODE_DIGITS));
```

```
                double Current_Stop =  
                    NormalizeDouble(OrderStopLoss(),  
                        (int)MarketInfo(Symbol(),MODE_DIGITS));
```

```
                //損切り価格の変更  
                if(OrderMagicNumber() == Magic && OrderSymbol() == Symbol() &&  
                    Current_Stop < Max_Stop_Loss)
```

```
                {  
                    bool Modified = OrderModify(OrderTicket(),OrderOpenPrice(),  
                        Max_Stop_Loss,0,0);
```

```
                }  
            }  
            //売りポジションの場合
```

```
            else if(OrderType() == OP_SELL)
```

```
            {  
                Max_Stop_Loss = Ask + Trailing_Stop * Pips;
```

```
                Max_Stop_Loss =  
                    NormalizeDouble(Max_Stop_Loss,  
                        (int)MarketInfo(Symbol(),MODE_DIGITS));
```

```
                Current_Stop =  
                    NormalizeDouble(OrderStopLoss(),  
                        (int)MarketInfo(Symbol(),MODE_DIGITS));
```

```
                //損切り価格の変更  
                if(OrderMagicNumber() == Magic && OrderSymbol() == Symbol() &&  
                    (Current_Stop > Max_Stop_Loss || Current_Stop == 0))
```

```
                {  
                    Modified = OrderModify(OrderTicket(),OrderOpenPrice(),  
                        Max_Stop_Loss,0,0);
```

```
                }  
            }  
        }  
    }  
}
```

```
return(0);  
}
```

具体的な売買ロジックを記述