```
//+------------------------------------------------------------------+
//|                                          BAI18: FIBONACCI.mq5 |
//|                      Copyright 2020, MetaQuotes Software Corp. |
//|                                          https://www.mql5.com |
//+------------------------------------------------------------------+
#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.mqh>
#include <Trade\SymbolInfo.mqh>
#include <Object.mqh>
CTrade trade;
//+------------Ms ROBOT: robotfx.mt5@gmail.com----------------------+
//+------------------------------------------------------------------+
//| 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 double            Volume=0.3; //Volume
input int               Target=50; //Target

int      cmd = 0;
int      Reset = 0;

int      SumProfit = 0;
int      Profitmax = 0;
int      Profitmin = 0;

string   Label = "Start";

double   Bid = 0;
double   Ask = 0;

int      Start = 0;
double   TotalProfit = 0;
double   BalanceOut = 0;
double   BalanceIn = 0;
double   BalanceSave = 0;

int   S= 0;

int   W= 0;
int   F= 0;
```

```
string   Signal = "Non";

int            TP=300; //Take Profit(Point)
int            SL=300; //Stoploss (Point)

double Lv23 = 0;
double Lv38 = 0;
double Lv50 = 0;
double Lv61 = 0;
double Lv100 = 0;


//+------------Ms ROBOT: robotfx.mt5@gmail.com-----------------------+
//+------------------------------------------------------------------+
void OnTick()
  {
//---
   if(Start == 0)
   {
      BalanceIn = AccountInfoDouble(ACCOUNT_BALANCE);
      BalanceSave = AccountInfoDouble(ACCOUNT_BALANCE);
      Check_Fibonacci();
      Start = 1;
   }
   CheckCMD();

   if(cmd == 0 && Reset == 1)
   {
      Label = "Start";
      Signal = "Non";

      Profitmax = 0;
      Profitmin = 0;

      BalanceOut=AccountInfoDouble(ACCOUNT_BALANCE);
      TotalProfit = NormalizeDouble(BalanceOut - BalanceIn,2);

      if(BalanceSave > BalanceOut)
      {F++;}
      if(BalanceSave < BalanceOut)
      {W++;}

      BalanceSave = BalanceOut;
      Reset = 0;
   }

   if(cmd == 0 && F >= 2)
   {
      ExpertRemove();
      Label = "STOP TRADING";
   }

   if(cmd == 0 && Lv100 ==0 && S > 0)
   {
      ExpertRemove();
      Label = "FINISH TRADING";
   }

   if(SumProfit >= Target)
   {
      trade.PositionClose(Symbol(), 3); // Cấu trúc xóa lệnh
   }
   Check_Price();
   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(SumProfit > Profitmax)
      {
         Profitmax = SumProfit;
      }

      if(SumProfit < Profitmin)
      {
         Profitmin = SumProfit;
      }

    }
//+------------Ms ROBOT: robotfx.mt5@gmail.com-----------------------+
//+------------------------------------------------------------------+
void Check_Fibonacci() // Period 4H
{
   int HighestCandle,LowestCandle;
   double High[], Low[];

   ArraySetAsSeries(High,true);
   ArraySetAsSeries(Low,true);

   CopyHigh(_Symbol,_Period,0,100,High);
   CopyLow(_Symbol,_Period,0,100,Low);

   HighestCandle = ArrayMaximum(High,0,100);
   LowestCandle = ArrayMinimum(Low,0,100);
```

```
MqlRates PriceInformation[];
ArraySetAsSeries(PriceInformation,true);
int Data = CopyRates(Symbol(),Period(),0
,Bars(Symbol(),Period()),PriceInformation);

ObjectDelete(_Symbol, "Fibonacci");

ObjectCreate
(
   _Symbol,
   "Fibonacci",
   OBJ_FIBO,
   0,
   PriceInformation[100].time,
   PriceInformation[HighestCandle].high,
   PriceInformation[0].time,
   PriceInformation[LowestCandle].low

 );

 // Get values

 datetime DateTime0 = ObjectGetInteger(0,"Fibonacci",OBJPROP_TIME,0);
 Lv100 = ObjectGetDouble(0,"Fibonacci",OBJPROP_PRICE,0);

 datetime DateTime1 = ObjectGetInteger(0,"Fibonacci",OBJPROP_TIME,1);
 double PriceLevel_0 = ObjectGetDouble(0,"Fibonacci",OBJPROP_PRICE,1);

 int totalpoint = (Lv100-PriceLevel_0)/_Point;

 Lv23 = NormalizeDouble(PriceLevel_0 + (totalpoint*0.236*_Point),5);
 Lv38 = NormalizeDouble(PriceLevel_0 + (totalpoint*0.382*_Point),5);
 Lv50 = NormalizeDouble(PriceLevel_0 + (totalpoint*0.5*_Point),5);
 Lv61 = NormalizeDouble(PriceLevel_0 + (totalpoint*0.618*_Point),5);

 TP = (Lv50 - Lv38)/_Point;
 SL = TP;

 Bid = SymbolInfoDouble(Symbol(),SYMBOL_BID);

 if(Bid > Lv23)
 {
   Lv23 = 0;
 }

 if(Bid > Lv38)
 {
   Lv38 = 0;
 }
 if(Bid > Lv50)
 {
   Lv50 = 0;
 }
 if(Bid > Lv61)
 {
   Lv61 = 0;
 }
 if(Bid > Lv100)
 {
   Lv100 = 0;
```

```
    }
}
//+------------Ms ROBOT: robotfx.mt5@gmail.com-----------------------+
//+------------------------------------------------------------------+
void Check_Price()
{

      Bid = SymbolInfoDouble(Symbol(),SYMBOL_BID);

      if(cmd == 0)
      {
         if(Signal != "Sell Action") //"Start";
         {
                if(Lv23 != 0 && Bid > Lv23)
                {
                  Signal = "Sell Action";
                  Lv23 = 0;
                }

                if(Lv38 != 0 && Bid > Lv38)
                {
                  Signal = "Sell Action";
                  Lv38 = 0;
                }

                if(Lv50 != 0 && Bid > Lv50)
                {
                  Signal = "Sell Action";
                  Lv50 = 0;
                }

                if(Lv61 != 0 && Bid > Lv61)
                {
                  Signal = "Sell Action";
                  Lv61 = 0;
                }

                if(Lv100 != 0 && Bid > Lv100)
                {
                  Signal = "Sell Action";
                  Lv100 = 0;
                }
         }
      }

}
//+------------Ms ROBOT: robotfx.mt5@gmail.com-----------------------+
//+------------------------------------------------------------------+
void CheckBuySell()
   {

         Ask = SymbolInfoDouble(Symbol(),SYMBOL_ASK);
         Bid = SymbolInfoDouble(Symbol(),SYMBOL_BID);
         string PLabel = "";

         MqlRates PriceInformation[];
         ArraySetAsSeries(PriceInformation,true);
         double Data=CopyRates(Symbol(),Period(),0,Bars(Symbol(),Period()),
PriceInformation);
```

```
         if(Bid < PriceInformation[1].low && Bid < PriceInformation[2].low)
         {
            PLabel = "Down";
         }
         if(Ask > PriceInformation[1].high && Ask > PriceInformation[2]
.high)
         {
            PLabel = "Up";
         }

         if(cmd == 0)
         {
               if(PLabel == "Down" && Signal == "Sell Action")
               {

                  double SellTP = NormalizeDouble(Bid - TP*_Point,5);
                  double SellSL = NormalizeDouble(Bid + SL*_Point,5);

                  trade.Sell(Volume,NULL,Bid,SellSL,SellTP,NULL);
                  S++;
                  Label = "Done";
               }
         }

      if(cmd > 0)
      {
         Reset = 1;
      }
   }


//+------------------------------------------------------------------+
//+------------Ms ROBOT: robotfx.mt5@gmail.com-----------------------+
void Show()
   {
      string ptext =    (string)Profitmin + " < " +
                        (string)SumProfit    + " < " +
                        (string)Profitmax;
       Comment(
               "\n",
               "[TotalProfit] "  , (string)TotalProfit," ($)\n",
               "Win/ Fail: ", (string)W, " / ", (string)F, " + ",
               "Total Sell/ Point ", (string)S," / ", (string)TP, "\n",
               "Signal: ", Signal, " + ", Label, " : ",ptext," ($)\n"
               " ------------------- Fibonacci -------------------","\n",
               "Level 100: ", (string)Lv100, "\n",
               "Level 61.8: ", (string)Lv61, "\n",
               "Level 50: ", (string)Lv50, "\n",
               "Level 38.2: ", (string)Lv38, "\n",
               "Level 23.6: ", (string)Lv23, "\n"
               );
               Sleep(500); // Dừng 0.5s
   }
//+------------------------------------------------------------------+
// MS ROBOT - robotfx.mt5@gmail.com
```