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//+-----+
//|          Script_1MinuteTrueRangeAsPercentage.mq4 |
//|                                     M Wilson |
//|          https://www.algotrader.blog |
//+-----+
#property copyright "M Wilson"
#property link      "https://www.algotrader.blog"
#property version   "1.00"
#property strict

//+-----+
//| Script program start function |
//+-----+
void OnStart()
{

//This scans through the bars in the chart and calculates the maximum of the following:
// i) (Current High - Current Low) / Current Low
// ii) Abs(Current High - Previous Close) / Min(Current High, Previous Close)
// iii) Abs(Current Low - Previous Close) / Min(Current Low, Previous Close)

//It is an adjustment to the True Range Formula to try to get a feel for the maximum amount
//can move as a percentage.

double dblMax=-1;

for(int i=1;i<Bars-1;i++)
{
    double dblI = (iHigh(Symbol(),0,i)-iLow(Symbol(),0,i))/iLow(Symbol(),0,i);
    double dblII = MathAbs(iHigh(Symbol(),0,i)-iClose(Symbol(),0,i+1))/MathMin(iHigh(
Symbol(),0,i),iClose(Symbol(),0,i+1));
    double dblIII = MathAbs(iLow(Symbol(),0,i)-iClose(Symbol(),0,i+1))/MathMin(iLow(
Symbol(),0,i),iClose(Symbol(),0,i+1));
    double dblCandleResult=MathMax(MathMax(dblI,dblII),dblIII);

    if(dblCandleResult>dblMax) dblMax=dblCandleResult;
}

Print("Max 1 Minute Variation: "+DoubleToString(dblMax));

}
//+-----+

```