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//+-----+
//|                               Script_TestCyclicalFunctions.mq4 |
//|                               M Wilson |
//|                               https://www.algoGrader.blog |
//+-----+
#include <Inc_CyclicalFunctions.mqh>
#include <C_Chart_Drawing.mqh>

#property copyright "M Wilson"
#property link      "https://www.algoGrader.blog"
#property version   "1.00"
#property strict
#property show_inputs

//+-----+
//| Script inputs |
//+-----+
extern int I_Shift=1;
extern CyclicalCross I_CyclicalCrossToFind=AboveLower;

//+-----+
//| Script program start function |
//+-----+
void OnStart()
{
    string strReport="ATR:\n\n";

    //First, find out the cyclical leve for ATR;
    CyclicalLevel eLevel=CyclicalLevelForATR(I_Shift);
    strReport+="Level: "+EnumToString(eLevel)+"\n";

    //Now do the cross
    double dblNoDays=0;
    int intCross=CyclicalCrossForATR(I_Shift,I_CyclicalCrossToFind,dblNoDays);
    strReport+="Cross: "+IntegerToString(intCross)+"\n";
    strReport+="Time: "+TimeToString(iTime(Symbol(),0,intCross))+"\n";
    strReport+="NoDays: "+DoubleToString(dblNoDays)+"\n\n";

    //StdDev
    strReport+="StdDev:\n\n";

    //First, find out the cyclical leve for ATR;
    eLevel=CyclicalLevelForStdDev(I_Shift);
    strReport+="Level: "+EnumToString(eLevel)+"\n";

    //Now do the cross
    dblNoDays=0;
    intCross=I_Shift;
    intCross=CyclicalCrossForStdDev(I_Shift,I_CyclicalCrossToFind,dblNoDays);
    strReport+="Cross: "+IntegerToString(intCross)+"\n";
    strReport+="Time: "+TimeToString(iTime(Symbol(),0,intCross))+"\n";
    strReport+="NoDays: "+DoubleToString(dblNoDays);

    MessageBox(strReport);
}
//+-----+

```