PSEUDOCODE

Module: TradingSystem

Class: Trader

Inherit the classes Algorithm and RinaCsvGenerate publically.

Member Function:__init__

- 1. Initialize UserName='Username'
- 2. Initialize Password='Password'
- 3. Initialize DbName=Initialise 'DatabaseName'
- 4. Initialize TrainingDataTable='TraininngDataTableName'
- 5. Initialize SignalTable='SignalTableName'.
- 6. Initialise Resultstable='ResultsTableName'
- 7. Initialize RinaFileName

Member Function:Login(UserName,Password,DbName)

Purpose: Login into database

1. Login into database DbName using Username and Password

Member Function: CreateDbTable

Purpose: Create input and output tables.

- 1. If TrainingDataTable doesn't exist, create table TrainingDateTable.
- 2. Else delete data from TrainingDataTable.
- 3. If SignalTable doesn't exist, create table SignalTable.
- 4. Else delete data from SignalTable.
- 5. If ResultTable doesn't exist, create table ResultTable.
- 6. Else delete data from ResultTable.
- 7. Load data from USD1 min.csv to Training Date Table.

Member Function: CreateOhlc(OneMinuteDataMatrix)

- 1. OHLCMatrix(open)=RoundedoffTo2Digits(OneMinuteDataMatrix(start,open))
- 2. OHLCMatrix(close)=RoundedoffTo2Digits(OneMinuteDataMatrix(end,close))
- OHLCMatrix(high)=RoundedoffTo2Digits(Max(Open(OneMinuteDataMatrix(start:end,close))))

- OHLCMatrix(low)=RoundedoffTo2Digits(Min(OneMinuteDataMatrix(start:end, close)))
- 5. OHLCMatrix(date)=OneMinuteDataMatrix(start:end,date)
- 6. OHLCMatrix(time)=OneMinuteDataMatrix(start:end,time)
- CurrentBarDate=OHLCMatrix(date)
- 8. CurrentBarTime=OHLCMatrix(time)
- 9. CurentBarClosePrice=OHLCMatrix(close)

Module:Strategy(PositionVector,CurrentBarDate,CurrenBarTime,CurrentBarClos ePrice,CurrentMarketPosition,DbHandle,DbCursor)

Purpose: Write Signals into Signal Table

- 1. If PositionVector(CurrentTimeIndex-1)==0 and
 - PositionVector(CurrentTimeIndex)==-1 and CurrentMarketPosition==0
 - 1.1.Tradetype=1
 - 1.2.MarketEnterPrice=CurrentBarClose
 - 1.3. Current Market Position = -1
 - 1.4.Insert into SignalTable
 - (CurrentBarDate,CurrentBarTime,CurrentBarClose,'SELL',Qty,'Enter_Short1 ')
- 2. If PositionVector(CurrentTimeIndex-1)==0 and

PositionVector(CurrentTimeIndex)==1 and CurrentMarketPosition==0

- 2.1.Tradetype=1
- 2.2.MarketEnterPrice=CurrentBarClose
- 2.3. Current Market Position = 1
- 2.4.Insert into SignalTable

(CurrentBarDate,CurrentBarTime,CurrentBarClose,'BUY',Qty,'Enter_Long1')

3. If PositionVector(CurrentTimeIndex-1)==1 and

PositionVector(CurrentTimeIndex)==-1 and CurrentMarketPosition==1 and TradeType==1

- 3.1.CurrentMarketPosition=0
- 3.2.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'SELL', Qty, 'Long_Exit1')

4. If PositionVector(CurrentTimeIndex-1)==1 and

PositionVector(CurrentTimeIndex)==-1 and CurrentMarketPosition==1 and TradeType==2

- 4.1.CurrentMarketPosition=0
- 4.2.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'SELL', Qty, 'Long_Exit2')

5. If PositionVector(CurrentTimeIndex-1)==1 and

PositionVector(CurrentTimeIndex)==-1 and CurrentMarketPosition==0

- 5.1.Tradetype=2
- 5.2.MarketEnterPrice=CurrentBarClose
- 5.3.CurrentMarketPosition=-1
- 5.4.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'SELL', Qty, 'Enter_Short2')

6. If PositionVector(CurrentTimeIndex-1)==-1 and

PositionVector(CurrentTimeIndex)==1 and CurrentMarketPosition==-1 and TradeType==1

- 6.1.CurrentMarketPosition=0
- 6.2.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Buy', Qty, 'Short Exit1')

7. If PositionVector(CurrentTimeIndex-1)==-1 and

PositionVector(CurrentTimeIndex)==1 and CurrentMarketPosition==-1 and TradeType==2

- 7.1.CurrentMarketPosition=0
- 7.2.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Buy', Qty, 'Short_Exit2')

8. If PositionVector(CurrentTimeIndex-1)==-1 and

PositionVector(CurrentTimeIndex)==1 and CurrentMarketPosition==0

- 8.1.Tradetype=2
- 8.2.MarketEnterPrice=CurrentBarClose
- 8.3. Current Market Position = -1
- 8.4.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Buy', Qty, 'Enter Long2')

- 9. If PositionVector(CurrentTimeIndex-1)==-1 and
 - PositionVector(CurrentTimeIndex)==0 and CurrentMarketPosition==-1 and TradeType==1
 - 9.1.CurrentMarketPosition=0
 - 9.2.Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Buy', Qty, 'Short_Exit3)

10.If PositionVector(CurrentTimeIndex-1)==-1 and

PositionVector(CurrentTimeIndex)==0 and CurrentMarketPosition==-1 and TradeType==2

- 10.1. CurrentMarketPosition=0
- 10.2. Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Buy', Qty, 'Short_Exit4)

11.If PositionVector(CurrentTimeIndex-1)==1 and

PositionVector(CurrentTimeIndex)==0 and CurrentMarketPosition==1 and TradeType==1

- 11.1. CurrentMarketPosition=0
- 11.2. Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Sell', Qty, 'Long_Exit3)

12.If PositionVector(CurrentTimeIndex-1)==1 and

PositionVector(CurrentTimeIndex)==0 and CurrentMarketPosition==1 and TradeType==2

- 12.1. CurrentMarketPosition=0
- 12.2. Insert into SignalTable

(CurrentBarDate, CurrentBarTime, CurrentBarClose, 'Sell', Qty, 'Long_Exit4)