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Rem =====
Rem A_Messages_OoBasic Program (Copyright:Shuichi Sunaga)
Rem (2004/10/26:329)reorganize StopOrGo(2006/04/20)
Rem halt verification by row(2006/04/25:388)(2009/01/28:812)(2011/07/01:775)
Rem (2012/05/09:703)
Rem Translation into English(2012/08/10:368)
Rem =====
Rem Sub VeriFromWS() 'introduction to VeribyWS
Rem Sub VeriByWS(ByVal StrtRow&) Verification by row for WS
Rem Sub getLnDT(ByVal iRow&)
Rem Sub VeriLnDT%(ByVal IGross&, ICTax&, IAmount&) as boolean
Rem Sub MsgShow(MsgHead$)
Rem Function StopOrGo(ByVal sWhat$) as boolean
Rem =====
Option Explicit
Sub VeriFromWS()
  IntroTo3D()
  If Not StopOrGo("VeriLN") then
    MsgTxt$ = "This command is inapplicable to this sheet (" & aName$ & ")."
    MsgTtl$ = "Test of sheet for command applicability"
    msgbox(MsgTxt$, 16, MsgTtl$)
  End
End If
aName$ = aController.ActiveSheet.GetName()
getPagePlan aName$, cMonth%
VeriByWS SelectionRow, 276
End Sub
Sub VeriByWS(ByVal StrtRow&, ByVal rqt$) 'Verification by row for WS
  Dim VeriLN%
  Dim kGross&, IGross&, ICTax&, IAmount&
  MakeAcctList(WkBS, WkPL)
  aSheet.UnProtect("pwd")
  VeriLN% = StrtRow&
  Do while VeriLN% < dbMonthBtm& + 1
    If oAWDLg.getControl("g_sVL").text = "Stop" then
      SelectCell VeriLN%-2, Col_Amount%
      oAWDLg.getControl("g_sVL").text = "Go"
    end
  End If
  SelectCell VeriLN%, Col_Amount%
  getLnDT(VeriLN%)
  kGross& = 0
  IAmount& = myVal(LnDT$(Col_Amount%))
  Select Case aName$
    Case "BK"
      kGross& = myVal(LnDT$(Col_Gross% - 1))
      IGross& = myVal(LnDT$(Col_Gross%))
      If Col_CXCr% < Col_Border% then
        ICTax& = myVal(LnDT$(Col_CXCr%)) + myVal(LnDT$(Col_CXDr%))
      Else
        ICTax& = myVal(LnDT$(Col_CXDr%))
      End If
    Case "JV"
      IGross& = myVal(LnDT$(Col_Gross%))
      If Col_CXCr% < Col_Border% then
        ICTax& = myVal(LnDT$(Col_CXCr%)) + myVal(LnDT$(Col_CXDr%))
      Else
        ICTax& = myVal(LnDT$(Col_CXDr%))
      End If
    Case "AP"
      IGross& = myVal(LnDT$(Col_Gross%))
      ICTax& = myVal(LnDT$(Col_CXDr%))
    Case "AR"
      IGross& = myVal(LnDT$(Col_Gross%))
      ICTax& = myVal(LnDT$(Col_CXCr%))
    Case "MW"
      IGross& = myVal(LnDT$(Col_Gross%))
      ICTax& = 0
  End Select
  If VeriLnDT%(-kGross&+IGross&, ICTax&, IAmount&) = 7 then Rem(6:はい | 7:いいえ)

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1 Rem =====
2 Rem A_Messages Excel VBA Program (Copyright:Shuichi Sunaga)
3
4 Rem
5 Rem (2012/07/07:384)
6 Rem Translation into English(2012/08/10:365)
7 Rem =====
8 Rem Sub VeriFromWS() 'introduction to VeribyWS
9 Rem Sub VeriByWS(ByVal StrtRow&) Verification by row for WS
10 Rem Sub getLnDT(ByVal iRow&)
11 Rem Sub VeriLnDT%(ByVal IGross&, ICTax&, IAmount&) as boolean
12 Rem Sub MsgShow(MsgHead$)
13 Rem Function StopOrGo(ByVal sWhat$) as boolean
14 Rem =====
15 Option Explicit
16 Sub VeriFromWS()
17   IntroTo3D
18   If Not StopOrGo("VeriLN") Then
19     MsgTxt$ = "This command is inapplicable to this sheet (" & aName$ & ")."
20     MsgTtl$ = "Test of sheet for command applicability"
21     resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
22   End
23 End If
24 aName$ = ActiveSheet.Name
25 getPagePlan aName$, cMonth%
26 VeriByWS SelectionRow, 276
27 End Sub
28 Sub VeriByWS(ByVal StrtRow&, ByVal rqt$) 'Verification by row for WS
29   Dim VeriLN%
30   Dim kGross&, IGross&, ICTax&, IAmount&
31   MakeAcctList WkBS, WkPL
32   ActiveSheet.Unprotect ("pwd")
33   VeriLN% = StrtRow&
34   Do While VeriLN% < dbMonthBtm& + 1
35     Rem If oAWDLg.g_sVL.Value = "Stop" then
36       Rem SelectCell VeriLN%-2, Col_Amount%
37       Rem oAWDLg.g_sVL.Value = "Go"
38     Rem end
39   Rem End If
40   SelectCell VeriLN%, Col_Amount%
41   getLnDT (VeriLN%)
42   kGross& = 0
43   IAmount& = myVal(LnDT$(Col_Amount%))
44   Select Case aName$
45     Case "BK"
46       kGross& = myVal(LnDT$(Col_Gross% - 1))
47       IGross& = myVal(LnDT$(Col_Gross%))
48       If Col_CXCr% < Col_Border% Then
49         ICTax& = myVal(LnDT$(Col_CXCr%)) + myVal(LnDT$(Col_CXDr%))
50       Else
51         ICTax& = myVal(LnDT$(Col_CXDr%))
52       End If
53     Case "JV"
54       IGross& = myVal(LnDT$(Col_Gross%))
55       If Col_CXCr% < Col_Border% Then
56         ICTax& = myVal(LnDT$(Col_CXCr%)) + myVal(LnDT$(Col_CXDr%))
57       Else
58         ICTax& = myVal(LnDT$(Col_CXDr%))
59       End If
60     Case "AP"
61       IGross& = myVal(LnDT$(Col_Gross%))
62       ICTax& = myVal(LnDT$(Col_CXDr%))
63     Case "AR"
64       IGross& = myVal(LnDT$(Col_Gross%))
65       ICTax& = myVal(LnDT$(Col_CXCr%))
66     Case "MW"
67       IGross& = myVal(LnDT$(Col_Gross%))
68       ICTax& = 0
69   End Select
70   If VeriLnDT%(-kGross& + IGross&, ICTax&, IAmount&) = 7 Then '(6:はい | 7:いいえ)

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End
End If
VeriLN% = VeriLN% + 1
If aSName$ = "AP" Or aSName$ = "AR" Or aSName$ = "MW" Then
    Do While aSheet.getCellByPosition(1, VeriLN%-1).Rows.IsVisible = False And VeriLN% < dbMonthB
        VeriLN% = VeriLN% + 1
    Loop
End If
Loop
If rqst$ = "WsCalc" then
    MsgTxt$ = "Retry BS/PL preparation."
    MsgTtl$ = "Completed verification by row."
    resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
End If
aSheet.Protect("pwd")
End Sub
Sub getLnDT(ByVal iRow&)
    Dim i%
    For i% = 1 To Col_Border%
        LnDT$(i%) = CellString(aSheet, iRow&, i%)
    Next i%
End Sub
Function VeriLnDT%(ByVal iGross&, iCtax&, iAmount&)
    Dim oRange as object
    Dim CTXMult as double
    Dim taxcd$, MsgAdd$, WkAcct$, cBKCD$, sActCD$, funcCD1$, funcCD2$
    Dim i%, veriRow&, AcctIndex%, iQRow&, IFxRate%
    Dim nBKCD&, gBKBal&, iBKBal&, iQty as Double, iUnit as Double
    veriRow& = SelectionRow()
    VeriLnDT% = 6 ' (6:Yes | 7:No)
    taxcd$ = Acct2Txcd(LnDT$(Col_ActCD%))
    MsgAdd$ = "Continue verification by row ?"
    Rem ----- 1(Account Code)-----
    WkAcct$ = FillSpace(Len(LnDT$(Col_ActCD%))) & LnDT$(Col_ActCD%)
    AcctIndex% = IndexInACT(WkAcct$)
    Set oRange = aSheet.getCellByPosition( Col_ActCD%-1, veriRow&-1)
    If AcctIndex% > -1 then 'where WkAcct is registered on BS/PL
        If oRange.CellBackColor <> -1 then
            oRange.CellBackColor = -1
        end if
    Else
        If veriRow& > 2 then
            If Len(LnDT$(Col_ActCD%)) <> 0 Then
                oRange.CellBackColor = RGB(221,160,221) 'Purple
                MsgTxt$ = "Could not find this account colored in magenta on BS nor PL."&chr(13)
                MsgTtl$ = "Test of account code"
                VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
                Exit Function
            Else 'Null Account Code
                If aSName$ = "BK" then
                    Set oRange = aSheet.getCellByPosition(Col_CXDr%-1, veriRow&-1)
                    If ABS(iCtax&) <> 0 then
                        oRange.CellBackColor=RGB(211,211,211) 'Light Grey
                        MsgBoxShow("Value Added Tax")
                    end
                End If
            end if
        End If
    end if
End If
Rem ----- 2(Value-Added Tax)-----
If aSName$ <> "MW" then
    Set oRange = aSheet.getCellByPosition(Col_CXDr%-1, veriRow&-1)
    CTXMult = CTXRate/(100 + CTXRate)
    If ABS(iGross&) * CTXMult - ABS(iCtax&) < 1 then
        If taxcd$ = "S" Or taxcd$ = "T" then
            oRange.CellBackColor=-1
        Else
            oRange.CellBackColor=RGB(211,211,211) 'Light Grey
        End If
    End If

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71 End
72 End If
73 VeriLN% = VeriLN% + 1
74 If aSName$ = "AP" Or aSName$ = "AR" Or aSName$ = "MW" Then
75     Do While aSheet.Rows(VeriLN%).Hidden = True And VeriLN% < dbMonthBtm&
76         VeriLN% = VeriLN% + 1
77     Loop
78 End If
79 Loop
80 If rqst$ = "WsCalc" Then
81     MsgTxt$ = "Retry BS/PL preparation."
82     MsgTtl$ = "Completed verification by row."
83     resp% = MsgBox(MsgTxt$, 0, MsgTtl$)
84 End If
85 ActiveSheet.Protect ("pwd")
86 End Sub
87 Sub getLnDT(ByVal iRow&)
88     Dim i%
89     For i% = 1 To Col_Border%
90         LnDT$(i%) = CellString(aSheet, iRow&, i%)
91     Next i%
92 End Sub
93 Function VeriLnDT%(ByVal iGross&, iCTax&, iAmount&)
94     Dim oRange As Range
95     Dim CTXMult As Double
96     Dim taxcd$, MsgAdd$, WkAcct$, cBKCD$, sActCD$, funcCD1$, funcCD2$
97     Dim i%, veriRow&, AcctIndex%, iQRow&, IFxRate%
98     Dim nBKCD&, gBKBal&, iBKBal&, iQty As Double, iUnit As Double
99     veriRow& = SelectionRow
100     VeriLnDT% = 6 ' (6:Yes | 7:No)
101     taxcd$ = Acct2Txcd(LnDT$(Col_ActCD))
102     MsgAdd$ = "Continue verification by row ?"
103     Rem ----- 1(Account Code)-----
104     WkAcct$ = FillSpace(Len(LnDT$(Col_ActCD))) & LnDT$(Col_ActCD)
105     AcctIndex% = IndexInACT(WkAcct$)
106     Set oRange = aSheet.Cells(veriRow&, Col_ActCD%)
107     If AcctIndex% > -1 Then 'where WkAcct is registered on BS/PL
108         If oRange.Interior.Color <> RGB(255, 255, 255) Then
109             oRange.Interior.Color = RGB(255, 255, 255)
110         End if
111     Else
112         If veriRow& > 2 Then
113             If Len(LnDT$(Col_ActCD)) <> 0 Then
114                 oRange.Interior.Color = RGB(221, 160, 221) 'Purple
115                 MsgTxt$ = "Could not find this account colored in magenta on BS nor PL." & Chr(13)
116                 MsgTtl$ = "Test of account code"
117                 VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
118                 Exit Function
119             Else Rem Null Account Code
120                 If aSName$ = "BK" Then
121                     Set oRange = aSheet.Cells(veriRow&, Col_CXDr%)
122                     If Abs(iCTax&) <> 0 Then
123                         oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
124                         MsgBoxShow "Value Added Tax"
125                     End
126                 End If
127             End If
128         End If
129     End If
130 End If
131 Rem ----- 2(Value-Added Tax)-----
132 If aSName$ <> "MW" Then
133     Set oRange = aSheet.Cells(veriRow&, Col_CXDr%)
134     CTXMult = CTXRate / (100 + CTXRate)
135     If Abs(iGross&) * CTXMult - Abs(iCTax&) < 1 Then
136         If taxcd$ = "S" Or taxcd$ = "T" Then
137             oRange.Interior.Color = RGB(255, 255, 255)
138         Else
139             oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
140         End If

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elseif ICTax& = 0 then
    If taxcd$ = "S" or taxcd$ = "T" then
        oRange.CellBackColor=RGB(211,211,211) 'Light Grey
    Else
        oRange.CellBackColor= -1
    End If
else
    oRange.CellBackColor=RGB(211,211,211) 'Light Grey
end If
End If
Rem ----- 3(Gross-VAT=Amount consistency) -----
Set oRange = aSheet.getCellByPosition(Col_Amount%-1, veriRow&-1)
If aSName$ <> "MW" then
    If IGross& - ICTax& - IAmount& = 0 then
        If aSName$ = "BK" And CellValue(WkBK, veriRow&, Col_LineNo%) <> 0 then
            oRange.CellBackColor = -1
        End If
    else
        If not (aSName$ = "BK" And Len(LnDT$(Col_ActCD%)) = 0) then
            oRange.CellBackColor=RGB(211,211,211) 'Light Grey
            MsgTxt$ = "Inconsistency found in the equation of"&chr(13)
            MsgTxt$ = MsgTxt$ & "[With-VAT Amount - VAT = JE Amount]."
            MsgTtl$ = "Test of consistency in Amounts on the row"
            VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
            Exit Function
        End If
    end if
End If
Rem -----4(Departmental apportionment)-----
If IsMultiDP then
    If A_VAllocCD(val(LnDT$(Col_ActCD%))) Then
        dim Tdpt&
        Tdpt& = 0
        For i% = 1 to NumDpt
            Tdpt& = Tdpt& + myVal(LnDT$(Col_Amount% + i%))
        Next i
        If IAmount& = Tdpt& then
            oRange.CellBackColor = -1
        Else
            oRange.CellBackColor = RGB(211,211,211) 'Light Grey
            MsgTxt$ = "The total of apportioned amounts to departments do not" & chr(13)
            MsgTxt$ = MsgTxt$ & "agree with the JE (journal entry) amount." & chr(13)
            MsgTtl$ = "Test of departmental apportionment"
            VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
            Exit Function
        End If
    else
        ClearRange aSheet, veriRow&, Col_Amount%+1, veriRow&, Col_Amount%+NumDpt
    end if
End If
Rem -----5(Quantity x Unit price = JE amount)-----
If (aSName$="AP" and AP_UQP) or (aSName$="AR" and AR_UQP) Then
    IQty=myDVal(LnDT$(Col_Gross%-2))
    IUnit=myDVal(LnDT$(Col_Gross%-1))
    If ABS(IAmount& - IQty * IUnit) <= 1 then
        oRange.CellBackColor=-1
    else
        oRange.CellBackColor = RGB(211,211,211) 'Light Grey
        MsgTxt$ = "The product of Quantity x Unit price does not "& chr(13)
        MsgTxt$ = MsgTxt$ & "agree with the JE (journal entry) amount."
        MsgTtl$ = "Test of Q'ty x Unit Price calculation"
        VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
        Exit Function
    end if
End If
Rem -----6(Amount in foreign currency x exchange rate=JE amount)-----
If aSName$="MW" and MW_UQP Then
    IGross&=CellValue(aSheet, veriRow&, Col_Gross%)*100
    IFxRate%=CellValue(aSheet, veriRow&, Col_PaidMo%-1)*100
    If ABS(IAmount& - IGross& * IFxRate/10000) <= 1 then

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Elseif ICTax& = 0 Then
    If taxcd$ = "S" Or taxcd$ = "T" Then
        oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
    Else
        oRange.Interior.Color = RGB(255, 255, 255)
    End If
Else
    oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
End If
End If
Rem ----- 3(Gross-VAT=Amount consistency) -----
Set oRange = aSheet.Cells(veriRow&, Col_Amount%)
If aSName$ <> "MW" Then
    If IGross& - ICTax& - IAmount& = 0 Then
        If aSName$ = "BK" And CellValue(WkBK, veriRow&, Col_LineNo%) <> 0 Then
            oRange.Interior.Color = RGB(255, 255, 255)
        End If
    Else
        If Not (aSName$ = "BK" And Len(LnDT$(Col_ActCD%)) = 0) Then
            oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
            MsgTxt$ = "Inconsistency found in the equation of" & Chr(13)
            MsgTxt$ = MsgTxt$ & "[Amount_with_VAT - VAT = Amount]."
            MsgTtl$ = "Test of consistency in Amounts on the row"
            VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
            Exit Function
        End If
    End If
End If
Rem -----4(Departmental apportionment)-----
If IsMultiDP Then
    If A_VAllocCD(Val(LnDT$(Col_ActCD%))) Then
        Dim Tdpt&
        Tdpt& = 0
        For i% = 1 To NumDpt
            Tdpt& = Tdpt& + myVal(LnDT$(Col_Amount% + i%))
        Next i
        If IAmount& = Tdpt& Then
            oRange.Interior.Color = RGB(255, 255, 255)
        Else
            oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
            MsgTxt$ = "The total of apportioned amounts to departments do not" & chr(13)
            MsgTxt$ = MsgTxt$ & "agree with the JE (journal entry) amount." & chr(13)
            MsgTtl$ = "Test of departmental apportionment"
            VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
            Exit Function
        End If
    Else
        ClearRange aSheet, veriRow&, Col_Amount% + 1, veriRow&, Col_Amount% + NumDpt
    End If
End If
Rem -----5(Quantity x Unit price = JE amount)-----
If (aSName$ = "AP" And AP_UQP) Or (aSName$ = "AR" And AR_UQP) Then
    IQty = myDVal(LnDT$(Col_Gross% - 2))
    IUnit = myDVal(LnDT$(Col_Gross% - 1))
    If Abs(IAmount& - IQty * IUnit) <= 1 Then
        oRange.Interior.Color = RGB(255, 255, 255)
    Else
        oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
        MsgTxt$ = "The product of Quantity x Unit price does not " & Chr(13)
        MsgTxt$ = MsgTxt$ & "agree with the journal entry amount."
        MsgTtl$ = "Test of Q'ty x Unit Price calculation"
        VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
        Exit Function
    End If
End If
Rem -----6(Amount in foreign currency x exchange rate=JE amount)-----
If aSName$ = "MW" And MW_UQP Then
    IGross& = CellValue(aSheet, veriRow&, Col_Gross%) * 100
    IFxRate% = CellValue(aSheet, veriRow&, Col_PaidMo% - 1) * 100
    If Abs(IAmount& - IGross& * IFxRate / 10000) <= 1 Then

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oRange.CellBackColor = -1
else
oRange.CellBackColor = RGB(211,211,211) 'Light Grey
MsgTxt$ = "The product of amount in foreign currency x exchange rate" & chr(13)
MsgTxt$ = MsgTxt$ & "does not agree with the JE (journal entry) amount."
MsgTtl$ = "Test of Foreign currency x exchange rate calculation"
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
end if
End If
Rem -----7(Bank balances)-----
If aSName$="BK" then
if CellString(aSheet, veriRow&, Col_LineNo%) <> "0" then
gBKBal& = CellValue(WkBK, veriRow& -1, Col_BkChg%+1)
gBKBal& = gBKBal& + CellValue(WkBK, veriRow&, Col_Gross%-1)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_Gross%)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_BkChg%-1)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_BkChg%)
If CellValue(WkBK, veriRow&, Col_BkChg% + 1) <> gBKBal& then
MsgTxt$ = "The Bank balance of this row is not calculated correctly."& chr(13)
MsgTxt$ = MsgTxt$ & "Will adjust the balance."
MsgTtl$ = "Test of BK balance calculation"
MsgBox(MsgTxt$, 16, MsgTtl$)
SetCellValue WkBK, veriRow&, Col_BkChg% + 1, gBKBal&
MsgTxt$ = "Completed correction."&chr(13)
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
End If
end if
End If
Rem -----8(Tie in of Bank balance with BS balance)-----
If aSName$="BK" then
cBKCD = LnDT$(Col_BKCD%)
nBKCD = CellValue(WkBK, veriRow&+1,Col_BKCD%)
if Val(cBKCD) <> nBKCD then
iQRow& = getFSRow%(WkBS, CStr(cBKCD), ActCol)
gBKBal& = CellValue(WkBS, iQRow&, CFCol)
IBKBal& = CellValue(WkBK, veriRow&, Col_BKChg% + 1)
If gBKBal& <> IBKBal& then
MsgTxt$ = "The balances of " & CStr(cBKCD) & ">" & CellString(WkBS, iQRow&, 4)
MsgTxt$ = MsgTxt$ & "per BK sheet and per BS do not agree." & Chr(13)
MsgTxt$ = MsgTxt$ & "It is a good practice to retry row calculation from top " & chr(13)
MsgTxt$ = MsgTxt$ & "row of the Bank or retry preparation of BS & PL."
MsgTtl$ = "Test of agreemnt of BK and BS balances"
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
End If
end if
End If
Rem -----9(Project code)-Eliminated-----
End Function
Sub MsgShow(ByVal MsgHead$)
MsgTtl$ = MsgHead$
Select Case MsgHead$
Case "Qualified Acct"
MsgTxt$ = "Impossible to list items to be settled in box A, because" & chr(13)
MsgTxt$ = MsgTxt$ & "the account code of this row is different from the designated code"& Chr(13)
MsgTxt$ = MsgTxt$ & "on macro sheet VZ either as APCD or ARCD"
MsgTtl$ = "account code for matching AP/AR"
Case "Journal Entry Amount"
MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & chr(13)
MsgTxt$ = MsgTxt$ & "is not without-tax amount. subtracted by VAT amount." & chr(13)
MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "Unit_Amount_Quantity"
MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & chr(13)
MsgTxt$ = MsgTxt$ & "differs from the product of Quantity x Unit price.." & chr(13)
MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "Past fiscal year"
MsgTxt$ = "To avoid a change to the past year data of this sheet (" & aSName$ & ")," & chr(13)
MsgTxt$ = MsgTxt$ & "this row insertion command is aborted"

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oRange.Interior.ColorIndex = RGB(255, 255, 255)
Else
oRange.Interior.Color = RGB(211, 211, 211) 'Light Grey
MsgTxt$ = "The product of amount in foreign currency x exchange rate" & Chr(13)
MsgTxt$ = MsgTxt$ & "does not agree with the journal entry amount."
MsgTtl$ = "Test of Foreign currency x exchange rate calculation"
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
End If
End If
Rem -----7(Bank balances)-----
If aSName$ = "BK" Then
If CellString(aSheet, veriRow&, Col_LineNo%) <> "0" Then
gBKBal& = CellValue(WkBK, veriRow& - 1, Col_BKChg% + 1)
gBKBal& = gBKBal& + CellValue(WkBK, veriRow&, Col_Gross% - 1)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_Gross%)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_BKChg% - 1)
gBKBal& = gBKBal& - CellValue(WkBK, veriRow&, Col_BKChg%)
If CellValue(WkBK, veriRow&, Col_BKChg% + 1) <> gBKBal& Then
MsgTxt$ = "The Bank balance of this row is not calculated correctly." & Chr(13)
MsgTxt$ = MsgTxt$ & "Will adjust the balance."
MsgTtl$ = "Test of BK balance calculation"
resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
SetCellValue WkBK, veriRow&, Col_BKChg% + 1, gBKBal&
MsgTxt$ = "Completed correction"
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
End If
End If
End If
Rem -----8(Tie in of Bank balance with BS balance)-----
If aSName$ = "BK" Then
cBKCD = LnDT$(Col_BKCD%)
nBKCD = CellValue(WkBK, veriRow& + 1, Col_BKCD%)
If Val(cBKCD) <> nBKCD Then
iQRow& = getFSRow%(WkBS, CStr(cBKCD), ActCol)
gBKBal& = CellValue(WkBS, iQRow&, CFCol)
IBKBal& = CellValue(WkBK, veriRow&, Col_BKChg% + 1)
If gBKBal& <> IBKBal& Then
MsgTxt$ = "The balances of " & CStr(cBKCD) & ">" & CellString(WkBS, iQRow&, 4)
MsgTxt$ = MsgTxt$ & "per BK sheet and per BS do not agree." & Chr(13)
MsgTxt$ = MsgTxt$ & "It is a good practice to retry row calculation from top " & Chr(13)
MsgTxt$ = MsgTxt$ & "row of the bank or retry preparation of BS & PL."
MsgTtl$ = "Test of agreemnt of BK and BS balances"
VeriLnDT% = MsgBox(MsgTxt$ & MsgAdd$, 276, MsgTtl$)
Exit Function
End If
End If
End If
Rem -----9(Project code)-Eliminated-----
End Function
Sub MsgShow(ByVal MsgHead$)
MsgTtl$ = MsgHead$
Select Case MsgHead$
Case "Qualified Acct"
MsgTxt$ = "Impossible to list items to be settled in box A, because" & Chr(13)
MsgTxt$ = MsgTxt$ & "the account code of this row is different from the designated code" & Chr(13)
MsgTxt$ = MsgTxt$ & "on macro sheet VZ either as APCD or ARCD"
MsgTtl$ = "account code for matching AP/AR"
Case "Journal Entry Amount"
MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & Chr(13)
MsgTxt$ = MsgTxt$ & "is not without-tax amount. subtracted by VAT amount." & Chr(13)
MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "Unit_Amount_Quantity"
MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & Chr(13)
MsgTxt$ = MsgTxt$ & "differs from the product of Quantity x Unit price.." & Chr(13)
MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "Past fiscal year"
MsgTxt$ = "To avoid a change to the past year data of this sheet (" & aSName$ & ")," & Chr(13)
MsgTxt$ = MsgTxt$ & "this row insertion command is aborted"

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Case "Value Month"
    MsgTxt$ = "To avoid a change to the past month data,." & chr(13)
    MsgTxt$ = MsgTxt$ & "this command is aborted."
Case "Blank Rows"
    MsgTxt$ = "Remove the blank rows between the current row and the Total row"&chr(13)
    MsgTxt$ = MsgTxt$ & "on this sheet. Those rows could cause macro errors"
Case "JE Balance"
    MsgTxt$ = "Inbalance of Dr/Cr on this JV sheet for the month is found" & chr(13)
    MsgTxt$ = MsgTxt$ & "Try Verification by Row command for correction"
Case "Deptmental Apportionment"
    MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & chr(13)
    MsgTxt$ = MsgTxt$ & "differs from the total of apportioned amounts.to departments." & chr(13)
    MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "ApportionmentFactor"
    MsgTxt$ = "No apportionment factor (department headcounts)"& chr(13)
    MsgTxt$ = MsgTxt$ & "for the month found. Fill in the apportionment factor table"&chr(13)
    MsgTxt$ = MsgTxt$ & "for the month and retry row calculation"
Case "DataTypeError"
    MsgTxt$ = "The cell colored in light magenta contains full size space or other characters"&chr(13)
    MsgTxt$ = MsgTxt$ & "Make the cell blank using the Delete Key and retry Row Calculation."
Case "Value Added Tax"
    MsgTxt$ = "The Value-added tax must be zero on this row"&chr(13)
    MsgTxt$ = MsgTxt$ & "Delete the VAT amount and retry Row Calculation."
    MsgTtl$ = "Value Added Tax"
Case "Col_Border"
    MsgTxt$ = "The word [Col_Border] is not found on row 1 of "
    MsgTxt$ = MsgTxt$ & aController.ActiveSheet.GetName() & " sheet."&chr(13)
    MsgTxt$ = MsgTxt$ & "Input and restore the word [Col_Border] in the cell" & chr(13)
    MsgTxt$ = MsgTxt$ & "on the intersection of row 1 and the column, which is" & chr(13)
    MsgTxt$ = MsgTxt$ & "next to the rightmost column with some word on row 2."
    MsgTtl$ = "Restoration of word [Col_Border]"
Case "Acct_Analysis"
    MsgTxt$ = "Account analysis command is not applicable to " & aName$ & " sheet."&chr(13)
    MsgTxt$ = MsgTxt$ & "Move to CF, AvB, BS, PL, each Department sheet or " & chr(13)
    MsgTxt$ = MsgTxt$ & "DPT sheet, and retry this command."
Case "ExtraDataBaseArea"
    MsgTxt$ = "Something is input on " & aName$ & "sheet below the row" & chr(13)
    MsgTxt$ = MsgTxt$ & "of [Current Month Total] and on the column of [JE Amount]"&chr(13)
    MsgTxt$ = MsgTxt$ & "Please erase it to prevent possible malfunction"
Case "InCompletePriorFS"
    MsgTxt$ = "Unable to prepare current month BS/PL,." & chr(13)
    MsgTxt$ = MsgTxt$ & "because prior month BS/PL preparation is not complete."
    MsgTtl$ = CStr(GetDate("Curr","Date")) & "BS/PL for preparation"
Case "CFInCompletePriorFS"
    MsgTxt$ = "Unable to prepare current month Cashflow statemnt" & chr(13)
    MsgTxt$ = MsgTxt$ & "because prior month BS/PL preparation is not complete."
    MsgTtl$ = CStr(GetDate("Curr","Date")) & "CF for preparation"
End Select
MsgTtl$ = "Test of " & MsgTtl$
resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
End Sub
Function StopOrGo(ByVal sWhat$) as boolean
    dim z%
    Rem === BK(0),JV(1),AP(2),AR(3),MW(4),[BS/PL/Dpt/CF/AvB](10),Dept sheets(12),Other(9)
    StopOrGo = False
    z% = iWS(aName$)
    Select Case sWhat$
        Case "ShowJE"
            If aName$="BK" or aName$="AP" or aName$="AR" or aName$="MW" then
                StopOrGo = True
            End If
        Case "ShowACName"
            If aName$="BK" or aName$="JV" or aName$="AP" or aName$="AR" or aName$="MW" then
                StopOrGo = True
            End If
        Case "ShowACDOnly"
            If z%<8 or (z%-10)*(z%-12)=0 then
                StopOrGo = True
            End If
        Case "Acct_Analysis"

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Case "Value Month"
    MsgTxt$ = "To avoid a change to the past month data,." & Chr(13)
    MsgTxt$ = MsgTxt$ & "this command is aborted."
Case "Blank Rows"
    MsgTxt$ = "Remove the blank rows between the current row and the Total row" & Chr(13)
    MsgTxt$ = MsgTxt$ & "on this sheet. Those rows could cause macro errors"
Case "JE Balance"
    MsgTxt$ = "Inbalance of Dr/Cr on this JV sheet for the month is found" & Chr(13)
    MsgTxt$ = MsgTxt$ & "Try Verification by Row command for correction"
Case "Deptmental Apportionment"
    MsgTxt$ = "JE (journal entry) amount on the row colored in magenta." & Chr(13)
    MsgTxt$ = MsgTxt$ & "differs from the total of apportioned amounts.to departments." & Chr(13)
    MsgTxt$ = MsgTxt$ & "Retry Row Calculation and, if necessary, BS/PL preparation."
Case "ApportionmentFactor"
    MsgTxt$ = "No apportionment factor (department headcounts)" & Chr(13)
    MsgTxt$ = MsgTxt$ & "for the month found. Fill in the apportionment factor table" & Chr(13)
    MsgTxt$ = MsgTxt$ & "for the month and retry row calculation"
Case "DataTypeError"
    MsgTxt$ = "The cell colored in light magenta contains full size space or other characters" & Chr(13)
    MsgTxt$ = MsgTxt$ & "Make the cell blank using the Delete Key and retry Row Calculation."
Case "Value Added Tax"
    MsgTxt$ = "The Value-added tax must be zero on this row" & Chr(13)
    MsgTxt$ = MsgTxt$ & "Delete the VAT amount and retry Row Calculation."
    MsgTtl$ = "Value Added Tax"
Case "Col_Border"
    MsgTxt$ = "The word [Col_Border] is not found on row 1 of "
    MsgTxt$ = MsgTxt$ & ActiveSheet.Name & " sheet." & Chr(13)
    MsgTxt$ = MsgTxt$ & "Input and restore the word [Col_Border] in the cell" & Chr(13)
    MsgTxt$ = MsgTxt$ & "on the intersection of row 1 and the column, which is" & Chr(13)
    MsgTxt$ = MsgTxt$ & "next to the rightmost column with some word on row 2."
    MsgTtl$ = "Restoration of word [Col_Border]"
Case "Acct_Analysis"
    MsgTxt$ = "Account analysis command is not applicable to " & aName$ & " sheet." & Chr(13)
    MsgTxt$ = MsgTxt$ & "Move to CF, AvB, BS, PL, each Department sheet or " & Chr(13)
    MsgTxt$ = MsgTxt$ & "DPT sheet, and retry this command."
Case "ExtraDataBaseArea"
    MsgTxt$ = "Something is input on " & aName$ & "sheet below the row" & Chr(13)
    MsgTxt$ = MsgTxt$ & "of [Current Month Total] and on the column of [JE Amount]" & Chr(13)
    MsgTxt$ = MsgTxt$ & "Please erase it to prevent possible malfunction"
Case "InCompletePriorFS"
    MsgTxt$ = "Unable to prepare current month BS/PL,." & Chr(13)
    MsgTxt$ = MsgTxt$ & "because prior month BS/PL preparation is not complete."
    MsgTtl$ = CStr(GetDate("Curr", "Date")) & "BS/PL for preparation"
Case "CFInCompletePriorFS"
    MsgTxt$ = "Unable to prepare current month Cashflow statemnt" & Chr(13)
    MsgTxt$ = MsgTxt$ & "because prior month BS/PL preparation is not complete."
    MsgTtl$ = CStr(GetDate("Curr", "Date")) & "CF for preparation"
End Select
MsgTtl$ = "Test of " & MsgTtl$
resp% = MsgBox(MsgTxt$, 16, MsgTtl$)
End Sub
Function StopOrGo(ByVal sWhat$) As Boolean
    Dim z%
    Rem === BK(0),JV(1),AP(2),AR(3),MW(4),[BS/PL/Dpt/CF/AvB](10),Dept sheets(12),Other(9)
    StopOrGo = False
    z% = iWS(aName$)
    Select Case sWhat$
        Case "ShowJE"
            If aName$ = "BK" Or aName$ = "AP" Or aName$ = "AR" Or aName$ = "MW" Then
                StopOrGo = True
            End If
        Case "ShowACName"
            If aName$ = "BK" Or aName$ = "JV" Or aName$ = "AP" Or aName$ = "AR" Or aName$ = "MW" T
                StopOrGo = True
            End If
        Case "ShowACDOnly"
            If z% < 8 Or (z% - 10) * (z% - 12) = 0 Then
                StopOrGo = True
            End If
        Case "Acct_Analysis"

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```
    If (z%-10)*(z%-12)=0 then
        StopOrGo = True
    End If
Case "Sort4Rep", "VeriLN"
    If z% < 9 then
        StopOrGo = True
    End If
Case "LineCalc"
    If z% < 9 then
        StopOrGo = True
    End If
Case "LNJump"
    If aSName$ = "Lense" or aSName$ = "SvC" then
        StopOrGo = True
    End If
End Select
End Function
```

```
351    If (z% - 10) * (z% - 12) = 0 Then
352        StopOrGo = True
353    End If
354    Case "Sort4Rep", "VeriLN"
355        If z% < 9 Then
356            StopOrGo = True
357        End If
358    Case "LineCalc"
359        If z% < 9 Then
360            StopOrGo = True
361        End If
362    Case "LNJump"
363        If aSName$ = "Lense" Or aSName$ = "SvC" Then
364            StopOrGo = True
365        End If
366    End Select
367 End Function
```