Option Explicit

'Defined public variables

Public Client\_Name As String

Public Current\_Age As Integer

Public Pension\_Age As Integer

Public Expected\_life As Integer

Public Yearly\_Contribution As Double

Public PPF\_Interest\_Rate As Double

Public Pension\_Period As Integer

Public Contribution\_Period As Integer

Public Balance\_Amount\_at\_Pensionstart As Double

'code for pension by PPF depository scheme

Private Sub PPF\_Pension\_Cal\_Click()

Dim Balance\_Amount As Double

Dim Yearly\_Pension1 As Integer

Dim Yearly\_Pension2 As Integer

Dim Yearly\_Pension3 As Integer

Dim Cont\_Cyc As Integer

Dim Pension\_Cyc As Integer

Dim Year\_Interest As Double

Dim Age As Integer

Dim Pension\_Trail\_Amount As Double

Dim Pension\_amount As Double

Dim Pension\_Trial As Integer

Balance\_Amount = 0

Balance\_Amount\_at\_Pensionstart = 0

'Read infromation provided by client

Client\_Name = Worksheets("PPF\_Input").Cells(1, 2).Value

Current\_Age = Worksheets("PPF\_Input").Cells(2, 2).Value

Pension\_Age = Worksheets("PPF\_Input").Cells(3, 2).Value

Expected\_life = Worksheets("PPF\_Input").Cells(4, 2).Value

Yearly\_Contribution = Worksheets("PPF\_Input").Cells(5, 2).Value

PPF\_Interest\_Rate = Worksheets("PPF\_Input").Cells(6, 2).Value

'calculate the contribution\_period

If Pension\_Age > Current\_Age Then

Contribution\_Period = Pension\_Age - Current\_Age

Else

Contribution\_Period = 0

End If

'calculate the contribution\_period

If Expected\_life > Pension\_Age Then

Pension\_Period = Expected\_life - Pension\_Age + 1

Else

Pension\_Period = 0

End If

'calculate Balance\_amount during contribution period

Age = Current\_Age - 1

Worksheets("PPF\_Output").Cells(1, 1).Value = "Summary of Contribution Period For " & Client\_Name

Worksheets("PPF\_Output").Cells(2, 1).Value = "Age"

Worksheets("PPF\_Output").Cells(2, 2).Value = "Deposit\_Cycle"

Worksheets("PPF\_Output").Cells(2, 3).Value = "Deposit\_Amount"

Worksheets("PPF\_Output").Cells(2, 4).Value = "Interest"

Worksheets("PPF\_Output").Cells(2, 5).Value = "Balance\_Amount"

Worksheets("PPF\_Output").Activate

Worksheets("PPF\_Output").Range("A3:kZ100000").ClearContents

For Cont\_Cyc = 1 To Contribution\_Period

Year\_Interest = Balance\_Amount \* PPF\_Interest\_Rate / 100

Balance\_Amount = Balance\_Amount + Year\_Interest + Yearly\_Contribution

Age = Age + 1

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc, 1).Value = Age

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc, 2).Value = Cont\_Cyc

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc, 3).Value = Yearly\_Contribution

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc, 4).Value = Year\_Interest

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc, 5).Value = Balance\_Amount

Next Cont\_Cyc

Balance\_Amount\_at\_Pensionstart = Balance\_Amount

'This end the contribution part and now start the pension part

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 1, 1).Value = "Summary of Pension Period For " & Client\_Name

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2, 1).Value = "Age"

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2, 2).Value = "Pension\_Cycle"

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2, 3).Value = "Pension\_Amount"

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2, 4).Value = "Interest"

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2, 5).Value = "Balance\_Amount"

'calculate correct pension amount

If Pension\_Period > 1 Then

Pension\_Trail\_Amount = Balance\_Amount / Pension\_Period

Else: Pension\_Trail\_Amount = 0

End If

For Pension\_Trial = 1 To 100

Balance\_Amount = Balance\_Amount\_at\_Pensionstart

For Pension\_Cyc = 1 To Pension\_Period

Year\_Interest = Balance\_Amount \* PPF\_Interest\_Rate / 100

If Pension\_Cyc < 10 Then

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_Trail\_Amount

ElseIf Pension\_Cyc < 20 Then

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_Trail\_Amount \* 1.1

Else:

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_Trail\_Amount \* 1.2

End If

Next Pension\_Cyc

If Balance\_Amount > Pension\_Trail\_Amount \* 1.1 Then

Pension\_Trail\_Amount = Pension\_Trail\_Amount \* 1.04

Else: Pension\_Trial = 100

End If

Next Pension\_Trial

Pension\_amount = Pension\_Trail\_Amount

Balance\_Amount = Balance\_Amount\_at\_Pensionstart

' For output & printing the pension summary

For Pension\_Cyc = 1 To Pension\_Period

Age = Age + 1

Year\_Interest = Balance\_Amount \* PPF\_Interest\_Rate / 100

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 1).Value = Age

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 2).Value = Pension\_Cyc

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 4).Value = Year\_Interest

If Pension\_Cyc < 10 Then

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_amount

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 3).Value = Pension\_amount

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 5).Value = Balance\_Amount

ElseIf Pension\_Cyc < 20 Then

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_amount \* 1.1

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 3).Value = Pension\_amount \* 1.1

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 5).Value = Balance\_Amount

Else:

Balance\_Amount = Balance\_Amount + Year\_Interest - Pension\_amount \* 1.2

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 3).Value = Pension\_amount \* 1.2

Worksheets("PPF\_Output").Cells(2 + Cont\_Cyc + 2 + Pension\_Cyc, 5).Value = Balance\_Amount

End If

Next Pension\_Cyc

'end of sub program

End Sub