

```
Private Sub ProcessData()  
  
    Dim shData As Worksheet  
  
    Dim shSubpos As Worksheet  
  
    Dim shSubGrade As Worksheet  
  
    Dim gradeSys As Worksheet  
  
    Dim shBroad As Worksheet  
  
    Dim subp As Worksheet  
  
    Dim lrow As Long  
  
    Dim i As Long, j As Long  
  
    Dim wf As WorksheetFunction  
  
  
    Set wf = Application.WorksheetFunction  
  
    Set subp = ThisWorkbook.Sheets("subpoints")  
  
    Set gradeSys = ThisWorkbook.Sheets("gradingSystem")  
  
    Set shData = ThisWorkbook.Sheets("DATA")  
  
    Set shSubpos = ThisWorkbook.Sheets("SUBJECTPOSITION")  
  
    Set shSubGrade = ThisWorkbook.Sheets("SUBJECT GRADE")  
  
    Set shBroad = ThisWorkbook.Sheets("BROADSHEET")  
  
  
    Application.ScreenUpdating = False  
  
    Application.Calculation = xlCalculationManual  
  
    lrow = shData.Cells(shData.Rows.Count, "A").End(xlUp).Row  
  
  
    For j = 3 To 14  
  
        For i = 3 To lrow
```

Dim cell As Range

Set cell = shData.Cells(i, j)

' Copy cell A and B

shSubGrade.Cells(i, 1).Resize(, 2).Value = shData.Cells(i, 1).Resize(, 2).Value

subp.Cells(i, 1).Resize(, 2).Value = shData.Cells(i, 1).Resize(, 2).Value

shBroad.Cells(i, 1).Resize(, 2).Value = shData.Cells(i, 1).Resize(, 2).Value

' Copy the respective subject grades

For Each subject In Array("eng", "maths", "kis", "bio", "chem", "phy", "kis", "geog", "hist",
"comp", "agric", "bst")

Set gradeRange = gradeSys.Range(subject)

If IsEmpty(shData.Cells(i, j)) Then

shSubGrade.Cells(i, j).Value = "X"

Else

shSubGrade.Cells(i, j).Value = wf.VLookup(cell, gradeRange, 2)

End If

Next subject

' Map grades to points

Dim grade As String

grade = shSubGrade.Cells(i, j).Value

Select Case grade

Case "A": subp.Cells(i, j).Value = 12

Case "A-": subp.Cells(i, j).Value = 11

Case "B+": subp.Cells(i, j).Value = 10

Case "B": subp.Cells(i, j).Value = 9

Case "B-": subp.Cells(i, j).Value = 8

Case "C+": subp.Cells(i, j).Value = 7

Case "C": subp.Cells(i, j).Value = 6

Case "C-": subp.Cells(i, j).Value = 5

Case "D+": subp.Cells(i, j).Value = 4

Case "D": subp.Cells(i, j).Value = 3

Case "D-": subp.Cells(i, j).Value = 2

Case "E": subp.Cells(i, j).Value = 1

Case Else: subp.Cells(i, j).Value = ""

End Select

Next i

Next j

' Calculate and populate the rest of the data as needed

Application.Calculation = xlCalculationAutomatic

Application.ScreenUpdating = True

End Sub

Private Sub btnProcessResults_Click()

ProcessData

subjectRank

grade

broadsheet

analyzeGrade

shBroad.UsedRange.EntireColumn.AutoFit

Application.AutoRecover.Enabled = False

End Sub

Private Sub CommandButton1_Click()

ProcessData

subjectRank

grade

broadsheet

analyzeGrade

shBroad.UsedRange.EntireColumn.AutoFit

Application.AutoRecover.Enabled = False

End Sub