```
Sub ValidateAndHighlight()
 Dim ws As Worksheet
 Dim lastRow As Long
 Dim eanRange As Range
 Dim cell As Range
 Dim selectedColumn As Range
 Dim columnLetter As String
 ' Prompt the user to enter the column letter
 columnLetter = InputBox("Enter the column letter containing EAN codes (e.g., A, B, C)", "Column
Selection")
 'Check if the entered column letter is valid
 If Not IsValidColumn(columnLetter) Then
   MsgBox "Invalid column letter. Exiting macro."
   Exit Sub
 End If
 'Set the active sheet
 Set ws = ActiveSheet
 ' Find the last row in the selected column
 lastRow = ws.Cells(ws.Rows.Count, columnLetter).End(xlUp).Row
 'Set the range of EAN codes
 Set eanRange = ws.Range(columnLetter & "2:" & columnLetter & lastRow)
 'Loop through each cell in the range
 For Each cell In eanRange
   'Skip blank cells
   If Not IsEmpty(cell) Then
     Dim ean As String
     ean = CStr(cell.Value)
     'Check validity of EANs and add zeros
     If IsNumeric(ean) And Len(ean) <= 13 And Left(ean, 1) <> "2" And Mid(ean, 1, 3) <> "000" And
Mid(ean, 3, 5) <> "00000" And Mid(ean, 8, 5) <> "00000" Then
       'Add zeros to make it at least 13 digits long
       Dim newEAN As String
       newEAN = WorksheetFunction.Rept("0", 13 - Len(ean)) & ean
       'Check validity of the new EAN
       If IsNumeric(newEAN) And Len(newEAN) = 13 And Left(newEAN, 1) <> "2" And Mid(newEAN,
1, 3) <> "000" And Mid(newEAN, 3, 5) <> "00000" And Mid(newEAN, 8, 5) <> "00000" Then
         ' New EAN is valid
         cell.Value = newEAN
       Else
         'Invalid EAN, highlight the cell
         With cell.Interior
           .Pattern = xlSolid
           .Color = RGB(128, 0, 128) 'Purple background color
         End With
         With cell.Font
           .Color = RGB(255, 255, 255) ' White text color
         End With
       End If
     Else
       'Invalid EAN, highlight the cell
       With cell.Interior
         .Pattern = xlSolid
         .Color = RGB(128, 0, 128) 'Purple background color
       End With
       With cell.Font
         .Color = RGB(255, 255, 255) 'White text color
     End If
   End If
 Next cell
End Sub
Function IsValidColumn(ByVal columnLetter As String) As Boolean
 'Check if the column letter is between A and XFD (the last column)
 If Len(columnLetter) = 1 And columnLetter Like "[A-Za-z]" Then
   IsValidColumn = True
 Else
   IsValidColumn = False
 End If
```

End Function