Sub CreateQuiz()

'et up the spreadsheet

Dim wsQuestions As Worksheet

Dim wsResponses As Worksheet

Dim wsResults As Worksheet

Set wsQuestions = ThisWorkbook.Worksheets.Add

wsQuestions.Name = "Questions"

Set wsResponses = ThisWorkbook.Worksheets.Add

wsResponses.Name = "Responses"

Set wsResults = ThisWorkbook.Worksheets.Add

wsResults.Name = "Results"

'ormat the sheets

wsQuestions.Columns.AutoFit

wsResponses.Columns.AutoFit

wsResults.Columns.AutoFit

'nput questions

Dim questionArray As Variant

questionArray = Array("What is your name?", "What is your favorite color?", "What is your favorite hobby?")

Dim i As Integer

For i = 0 To UBound(questionArray)

wsQuestions.Cells(i + 1, 1).Value = questionArray(i)

Next i

'esign navigation

Dim navButton As Button

Set navButton = wsQuestions.Buttons.Add(100, 100, 100, 20)

navButton.Caption = "Next"

navButton.OnClick = "NextQuestion"

'mplement scoring

Dim score As Integer

score = 0

'dd validation rules

wsResponses.Columns(1).Validation.Add Type:=xlValidateInputOnly, AlertStyle:=xlValidAlertStop, Operator:=xlBetween, Formula1:="A1:A10"

'reate progress indicators

Dim progressIndicator As Shape

Set progressIndicator = wsQuestions.Shapes.AddShape(msoShapeRectangle, 100, 100, 100, 20)

progressIndicator.Fill.ForeColor.RGB = RGB(0, 255, 0)

progressIndicator.TextFrame.Characters.Text = "0/10"

'enerate summary sheet

wsResults.Cells(1, 1).Value = "Summary"

wsResults.Cells(2, 1).Value = "Overall Score: " & score

'nalyze data

Dim dataRange As Range

Set dataRange = wsResponses.Range("A1:A10")

Dim dataAnalysis As Worksheet

Set dataAnalysis = ThisWorkbook.Worksheets.Add

dataAnalysis.Name = "Data Analysis"

dataAnalysis.Cells(1, 1).Value = "Data Analysis"

dataAnalysis.Cells(2, 1).Value = "Mean: " & Application.WorksheetFunction.Average(dataRange)

dataAnalysis.Cells(3, 1).Value = "Median: " & Application.WorksheetFunction.Median(dataRange)

dataAnalysis.Cells(4, 1).Value = "Mode: " & Application.WorksheetFunction.Mode(dataRange)

'nhance security

wsResponses.Protect Password:="password"

'est and refine

'ather feedback from test participants and refine the design as needed

'istribute the quiz/survey

'hare the Excel file with participants via email, cloud storage, or a learning management system

'ollect and analyze responses

'ather responses from participants and analyze the data to gain insights into their knowledge, opinions, or preferences

End Sub

Sub NextQuestion()

'et the current question number

Dim currentQuestion As Integer

currentQuestion = wsQuestions.Cells(wsQuestions.Rows.Count, 1).End(xlUp).Row

'heck if the user has answered the current question

If wsResponses.Cells(currentQuestion, 1).Value = "" Then

MsgBox "Please answer the current question before moving on."

Exit Sub

End If

'ove to the next question

currentQuestion = currentQuestion + 1

wsQuestions.Cells(currentQuestion, 1).Select

'pdate the progress indicator

progressIndicator.TextFrame.Characters.Text = currentQuestion & "/" & wsQuestions.Cells(wsQuestions.Rows.Count, 1).End(xlUp).Row

End Sub