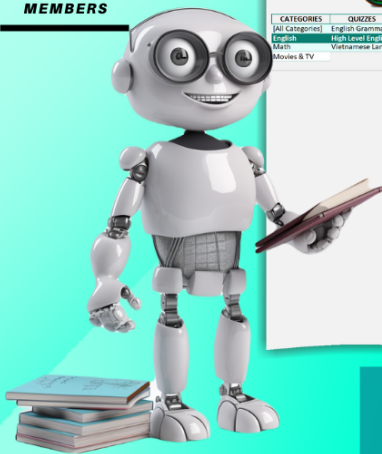


# VBA SOURCE CODE BOOK

## AI QUIZ GENERATOR UPDATED

EXCLUSIVE FOR SILVER & GOLD MEMBERS



**QUIZ GENIUS: AI-GENERATED QUIZZES & TESTS**

NEW QUIZ SAVE QUIZ DELETE QUIZ GENERATE QUIZ

Quiz Name: High Level English Category: English Difficulty Level: 5 # Of Questions: 10  
Description: Prepare a test that will help me master high levels of the English language. Difficulty Level: 5 out of 10 based on Use Time Limit: Yes Time Limit: 0:20

Question #	Question	Option A	Option B	Option C	Option D	Answer
1	What type of sentence is the following: "The dog barked"?	Declarative	Exclamatory	Interrogative	Imperative	Declarative
2	What is the plural form of the word "Child"?	Childs	Childen	Children	Childes	Children
3	What type of word is "Beautiful"?	Noun	Verb	Adjective	Adverb	Adjective
4	What is the present tense of the verb "to be"?	Be	Being	Been	Am	Be
5	What type of verb is "Jump"?	Transitive	Intransitive	Interrogative	Imperative	Intransitive
6	What is the comparative form of the word "Bad"?	Worse	Bader	Worst	Badly	Worse
7	What type of pronoun is the word "his"?	Possessive	Interrogative	Relative	Personal	Possessive
8	What is the past tense of the verb "to run"?	Run	Ran	Runs	Running	Ran
9	What is the present participle of the verb "to write"?	Write	Writes	Writing	Wrote	Writing
10	What is the singular possessive form of the word "They"?	They's	They'	Theys	Theys	They's

**High Level English**

Student: Fred Fredders Question #4 Time Limit: 0:03:00  
Progress: 4 of 10 Questions Time Elapsed: 0:00:45

What is the present tense of the verb "to be"?

A) Be  
B) Being  
C) Been  
D) Am

FEATURE, FIX, OR FOCUS



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by: *Randy Austin*

# ABOUT THE AUTHOR

A two-time Microsoft MVP & lifetime Excel enthusiast, Randy Austin founded Excel For Freelancers in 2017. Excel For Freelancers quickly became the most prominent resource Excel for developers to learn how to turn their passion for Excel into profits by building & selling their own excel-based applications for passive & recurring income.

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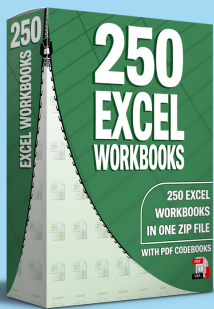
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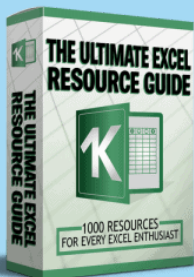
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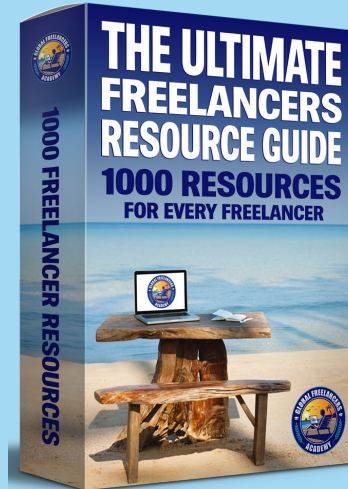
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1 Option Explicit

2

1 Option Explicit

2

1 Option Explicit

2



1 Option Explicit

2

```
1 Option Explicit
2
3 Private Sub Worksheet_SelectionChange(ByVal Target As Range)
4     If Target.CountLarge > 1 Then Exit Sub
5     'On Category Selection
6     If Not Intersect(Target, Range("D5:D999" )) Is Nothing And Range("D" & Target.Row).
7         Value <> Empty Then
8         Range("B7" ).Value = Target.Row
9         If Target.Row = 5 Then QuizDB.Range("M3" ).ClearContents Else QuizDB.Range("M3" )
10        .Value = Target.Value 'Place category criteria
11        Quiz_LoadQuizList 'Run Macro to update quiz list
12    End If
13
14    'On Quiz Selection
15    If Not Intersect(Target, Range("E5:E9999" )) Is Nothing And Range("E" & Target.Row)
16        .Value <> Empty Then
17        Range("B8" ).Value = Target.Row
18        Range("B4" ).Value = Range("F" & Target.Row).Value 'Set Quiz ID
19        Quiz_Load
20    End If
21 End Sub
```

1 Option Explicit

2

```
1 Option Explicit
2
3 Private Sub Worksheet_Change(ByVal Target As Range)
4     If Not Intersect(Target, Range("E7" )) Is Nothing And Range("E7" ).Value <> Empty
5         Then
6             Dim LastRow As Long, LastResultRow As Long
7             If Target.Value = "[All Categories]" Then QuizDB.Range("M3" ).ClearContents Else
8                 QuizDB.Range("M3" ).Value = Target.Value
9             With QuizDB
10                LastRow = .Range("A99999" ).End(xlUp).Row
11                If LastRow < 4 Then Exit Sub
12                .Range("A3:D" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
13                    "M2:M3" ), CopyToRange:=.Range("O2:P2" ), Unique:=True
14                LastResultRow = .Range("O99999" ).End(xlUp).Row
15                If LastResultRow < 3 Then Exit Sub
16                If LastResultRow < 4 Then GoTo SkipSort
17                'Sort Quizzes alphabetically
18                With .Sort
19                    .SortFields.Clear
20                    .SortFields.Add Key:=QuizDB.Range("O3" ), SortOn:=xlSortOnValues, Order:=
21                        xlAscending, DataOption:=xlSortNormal 'Sort
22                    .SetRange QuizDB.Range("O3:P" & LastResultRow) 'Set Range
23                    .Apply 'Apply Sort
24                End With
25                SkipSort:
26                Range("E9" ).ClearContents
27            End With
28        End If
29    End Sub
```

1 Option Explicit

2

```
1 Option Explicit
2
3 Private Sub Workbook_Open()
4     'AddResults 'Uncomment this out to check for results on workbook open
5 End Sub
```

```
1 Option Explicit
2
3
4 Private Sub AddStudBtn_Click()
5     SaveNewStudent
6 End Sub
7
8 Private Sub CancelBtn_Click()
9     AddStudForm.Hide
10    Unload AddStudForm
11 End Sub
12
```

```
1 Option Explicit
```

```
3 Sub GenerateQuizData()
```

```
4 Dim oXMLHTTP As Object
```

```
5 Dim JsonBody As String, Response As String, Prompt As String, Temp As String, Model  
As String, ParsedAnswer As String
```

```
6 Dim QuizName As String, QuizDesc As String, LastQuestRow As Long, LastOptionCol As  
Long, APIKey As String
```

```
7 Dim ColArr() As String, RowArr() As String, RowData As String, Lang As String,  
QuizID As String, QuizCat As String
```

```
8 Dim QuestData() As String, OptionsText As String, OptionData() As String, OptionTxt  
As String
```

```
9 Dim QuestRow As Long, OptionRow As Long, DiffLevel As Long, QuestCount As Long,  
LastRow As Long, QuestDBRow As Long
```

```
10 Dim QuestNumb As Long, AnswerNumb As Long
```

```
11 With QuizGen
```

```
12 'Check For previously saved quiz
```

```
13 If .Range("B5" ).Value <> Empty Then 'Quiz Previously Saved
```

```
14 If MsgBox("This quiz has been saved already. Are you sure you want to remove  
all of the existing questions and answers and replace them?" , vbYesNo,  
"Clear Existing Quiz Data" ) = vbNo Then Exit Sub
```

```
15 LastRow = .Range("O99" ).End(xlUp).Row
```

```
16 If LastRow < 11 Then GoTo SkipDelete
```

```
17 For QuestRow = LastRow To 11 Step -3
```

```
18 QuestDBRow = .Range("O" & QuestRow).Value 'Question DB Row
```

```
19 QuestDB.Range(QuestDBRow & ":" & QuestDBRow).EntireRow.Delete
```

```
20 Next QuestRow
```

```
21 SkipDelete:
```

```
22 End If
```

```
24 .Range("H11:O99" ).ClearContents 'Clear any existing quiz data
```

```
25 QuizName = .Range("H4" ).Value 'Quiz Name
```

```
26 QuizDesc = .Range("H6" ).Value 'Quiz Description
```

```
27 DiffLevel = .Range("L4" ).Value 'Difficulty Level
```

```
28 QuestCount = .Range("N4" ).Value '# of Questions
```

```
29 QuizCat = .Range("J4" ).Value 'Quiz Category
```

```
30 Lang = Admin.Range("D7" ).Value 'Response Language
```

```
31 'Check required Fields
```

```
32 If QuizName = "" Or QuizDesc = "" Then
```

```
33 MsgBox "Please make sure to add in a Quiz Name and Quiz Description"
```

```
34 Exit Sub
```

```
35 End If
```

```
36 If DiffLevel = 0 Then
```

```
37 MsgBox "Please add in a difficulty level between 1 and 10"
```

```
38 Exit Sub
```

```
39 End If
```

```
40 If QuestCount = 0 Then
```

```
41 MsgBox "Please add in a question # between 1 and 30"
```

```
42 Exit Sub
```

```
43 End If
```

```
44 Prompt = "Please generate a quiz with " & QuestCount & " questions and 4
```

```
45 options per question on the topic of " & QuizName & ": " & QuizDesc & _  
" and a difficulty level of " & DiffLevel & " out of 10, with 10 being the most
```

```
46 difficult. The quiz should include both questions and answers in a table format.  
" & _
```

```
47 "Each question should have 4 options (A, B, C, and D), and only the value of the  
correct answer in the final column. Use the following format:" & vbCrLf & _
```

```
48 "| [QUESTION_1] | [OPTION_A_1] | [OPTION_B_1] | [OPTION_C_1] | [OPTION_D_1] |
```

```
[CORRECT_ANSWER_1] |" & vbCrLf & _
```

```
" | [QUESTION_2] | [OPTION_A_2] | [OPTION_B_2] | [OPTION_C_2] | [OPTION_D_2] |
```

```
[CORRECT_ANSWER_2] |" & vbCrLf & _
```



```

49 1 2   "| ...      | ...      | ...      | ...      | ...      | ...      |" & vbCrLf & _
50     "| [QUESTION_N] | [OPTION_A_N] | [OPTION_B_N] | [OPTION_C_N] | [OPTION_D_N] |
51     [CORRECT_ANSWER_N] |" & vbCrLf & _
52     vbCrLf & "Please provide the quiz with " & QuestCount & " questions, options,
53     and correct answers in the table format as shown above."
54     If [Language] <> "English" & [Language] <> "" Then Prompt = Prompt & ".
55     Please make sure response are in " & [Language] & " language"
56     APIKey = Admin.Range("D4" ).Value 'Secret Key
57     Model = Admin.Range("D5" ).Value 'Model
58     Temp = Admin.Range("D6" ).Value 'Temperature
59     QuestRow = 11 'Set Initial Quiz Row
60     Prompt = Replace(Replace(Prompt, Chr(34), "\" & Chr(34)), vbCrLf, "\n" )
61     Set oXMLHTTP = CreateObject("MSXML2.ServerXMLHTTP" )
62     oXMLHTTP.Open "POST", "https://api.openai.com/v1/completions", False 'Set Open
63     Posts For Text
64     JsonBody = "{" "model" ": " "" & Model & "" ", " "prompt" ": " "" & Prompt &
65     "" ", " "temperature" ": " & Temp & "" ", " "max_tokens" ": 3500}" 'Request
66     Body For Text Response
67     oXMLHTTP.setRequestHeader "Content-Type", "application/json" 'Set Header Type
68     oXMLHTTP.setRequestHeader "Authorization", "Bearer " & APIKey 'Set Header
69     Authorization
70     Debug.Print JsonBody
71     'On Error GoTo Timeout
72     oXMLHTTP.send JsonBody
73     Response = oXMLHTTP.responseText 'Extract Response
74     If InStr(Response, "You didn't provide an API key" ) > 0 Then
75         MsgBox "No API Key was added. You can find your API key at " & vbCrLf &
76         "https://platform.openai.com/account/api-keys."
77         Exit Sub
78     End If
79     If InStr(Response, "Incorrect API key provided" ) > 0 Then
80         MsgBox "Incorrect API key provided. You can find your API key at " & vbCrLf &
81         "https://platform.openai.com/account/api-keys."
82         Exit Sub
83     End If
84     If InStr(Response, "maximum context length" ) > 0 Then
85         MsgBox "You have reached the maximum content length. Please choose less
86         number of questions"
87         Exit Sub
88     End If
89     If InStr(Response, "exceeded your current quota" ) > 0 Then
90         MsgBox "You have exceeded your current quota. Please check your current
91         account ussage here: https://platform.openai.com/account/usage"
92         Exit Sub
93     End If
94     'Debug.Print Response
95     ParsedAnswer = Right(Response, Len(Response) - InStrRev(Response, "{" & Chr(34)
96     & "text" & Chr(34) & ":" & Chr(34)) - 9)
97     ParsedAnswer = Left(ParsedAnswer, InStrRev(ParsedAnswer, Chr(34) & "," & Chr(34)
98     & "index" ) - 2)
99     If Left(ParsedAnswer, 2) = Chr(10) & Chr(10) Then ParsedAnswer = Right(
100    ParsedAnswer, Len(ParsedAnswer) - 2)
101    ParsedAnswer = Replace(ParsedAnswer, "\" & Chr(34), Chr(34)) 'Replace backslash
102    quote with quotes only
103    ParsedAnswer = Replace(ParsedAnswer, "\n\n| ", "" ) 'Remove intial line breaks
104    If Left(ParsedAnswer, 1) = "." Then ParsedAnswer = Right(ParsedAnswer, Len(
105    ParsedAnswer) - 1) 'Remove 1st period if it exists
106    QuestData = Split(ParsedAnswer, "\n|" )
107    LastQuestRow = UBound(QuestData)
108    For QuestNum = 0 To LastQuestRow

```

1 2 3

```
1 2 3
93 OptionsText = QuestData(QuestNum)
94 'Determine Delimiter
95 'If OptionData
96 OptionData = Split(OptionsText, " | " ) 'Split at Break
97 For OptionRow = 0 To 5
98     On Error GoTo NextRow
99     OptionTxt = Trim(OptionData(OptionRow)) 'Extract Data & remove unnecessary
        spaces
100     If OptionRow = 0 Then 'Add Question
101         .Range("H" & QuestRow).Value = OptionTxt 'Question Text
102     Else 'Add Option/Answer
103         If OptionRow <> 5 Then '1 of 4 Options
104             .Cells(QuestRow + 1, OptionRow + 7).Value = OptionTxt 'Add in
                Options & Answers
105         Else 'Answer
106             AnswerNumb = Asc(OptionTxt) - 64 'Get Answer Number 1 through 4
107             On Error GoTo NextRow
108             .Cells(QuestRow + 1, OptionRow + 8).Value = .Cells(QuestRow + 1,
                AnswerNumb + 7).Value
109         End If
110     End If
111     NextRow:
112 Next OptionRow
113 QuestRow = QuestRow + 3 'Increment Quiz Row
114 Next QuestNum
115
116 Exit Sub
117 TimeOut:
118 MsgBox "The request has timed out. Please try requesting a smaller number of
        questions"
119 End With
120 End Sub
121
122
```

```

1 Option Explicit
2 Dim QuizRow As Long, QuestRow As Long, QuizCol As Long, QuestNumb As Long
3 Dim QuestDBRow As Long, LastQuestRow As Long, LastRow As Long, ResultRow As Long,
  LastResultRow As Long
4 Dim QuizName As String, QuizID As String, QuizDesc As String, DiffLevel As String
5
6
7
8 Sub Quiz_Delete()
9     If MsgBox("Are you sure you want to delete this Quiz and all of the questions??" ,
10     vbYesNo, "Delete Quiz" ) = vbNo Then Exit Sub
11     If QuizGen.Range("B5" ).Value = "" Then GoTo NotSaved
12     QuizRow = QuizGen.Range("B5" ).Value
13     QuizDB.Range(QuizRow & ":" & QuizRow).EntireRow.Delete
14     'Delete Questions, Options & Answers
15     With QuestDB
16         LastRow = .Range("A99999" ).End(xlUp).Row
17         If LastRow < 4 Then Exit Sub
18         .Range("A3:J" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
19         "M2:M3" ), CopyToRange:=.Range("O2:V2" ), Unique:=True
20         LastResultRow = .Range("O99999" ).End(xlUp).Row
21         If LastResultRow < 3 Then Exit Sub
22         If LastResultRow < 4 Then GoTo SkipSort
23         With .Sort
24             .SortFields.Clear
25             .SortFields.Add Key:=QuestDB.Range("V3" ), SortOn:=xlSortOnValues, Order:=
26             xlDescending, DataOption:=xlSortNormal 'Sort
27             .SetRange QuestDB.Range("O3:V" & LastResultRow) 'Set Range
28             .Apply 'Apply Sort
29         End With
30         SkipSort:
31         For ResultRow = 3 To LastResultRow
32             QuizRow = .Range("V" & ResultRow).Value 'Quiz DB Row
33             .Range("A" & QuizRow & ":J" & QuizRow).ClearContents
34         Next ResultRow
35         'Clear Blank Row
36         LastResultRow = .Range("A99999" ).End(xlUp).Row
37         If LastResultRow < 3 Then Exit Sub
38         If LastResultRow < 4 Then GoTo SkipMainDataSort
39         'Resort List
40         With .Sort
41             .SortFields.Clear
42             .SortFields.Add Key:=QuestDB.Range("A4" ), SortOn:=xlSortOnValues, Order:=
43             xlAscending, DataOption:=xlSortNormal 'Sort
44             .SetRange QuestDB.Range("A4:J" & LastResultRow) 'Set Range
45             .Apply 'Apply Sort
46         End With
47         SkipMainDataSort:
48         NotSaved:
49         Quiz_New
50     End With
51 End Sub
52
53 Sub Quiz_Load()
54     With QuizGen
55         .Range("H4,J4,L4,N4,H6:J6,L6,N6,H11:O999" ).ClearContents 'Clear Existing fields
56
57         If .Range("B5" ).Value = "" Then
58             MsgBox "Please select a quiz to load"
59             Exit Sub
60         End If
61     End With
62 End Sub

```

```

1 2
56 QuizRow = .Range("B5" ).Value
57 For QuizCol = 2 To 8
58     .Range(QuizDB.Cells(1, QuizCol).Value).Value = QuizDB.Cells(QuizRow, QuizCol).
        Value 'Load Mapped Data
59 Next QuizCol
60 End With
61 'Load Questions, Options & Answers
62 With QuestDB
63     LastRow = .Range("A99999" ).End(xlUp).Row
64     If LastRow < 4 Then Exit Sub
65     .Range("A3:J" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
        "M2:M3" ), CopyToRange:=.Range("O2:V2" ), Unique:=True
66     LastResultRow = .Range("O99999" ).End(xlUp).Row
67     If LastResultRow < 3 Then Exit Sub
68     Application.ScreenUpdating = False
69     If LastResultRow < 4 Then GoTo SkipSort
70     'Sort Questions based on Question #
71     With .Sort
72         .SortFields.Clear
73         .SortFields.Add Key:=QuestDB.Range("P3" ), SortOn:=xlSortOnValues, Order:=
        xlAscending, DataOption:=xlSortNormal 'Sort
74         .SetRange QuestDB.Range("O3:V" & LastResultRow) 'Set Range
75         .Apply 'Apply Sort
76     End With
77     SkipSort:
78     QuizRow = 11 'Set Initial Quiz Row
79     For ResultRow = 3 To LastResultRow
80         QuizGen.Range("H" & QuizRow).Value = .Range("O" & ResultRow).Value 'Quiz
        Question
81         QuizGen.Range("H" & QuizRow + 1).Value = .Range("Q" & ResultRow).Value
        'Option 1
82         QuizGen.Range("I" & QuizRow + 1).Value = .Range("R" & ResultRow).Value
        'Option 2
83         QuizGen.Range("J" & QuizRow + 1).Value = .Range("S" & ResultRow).Value
        'Option 3
84         QuizGen.Range("K" & QuizRow + 1).Value = .Range("T" & ResultRow).Value
        'Option
85         QuizGen.Range("M" & QuizRow + 1).Value = .Range("U" & ResultRow).Value
        'Answer
86         QuizGen.Range("O" & QuizRow).Value = .Range("V" & ResultRow).Value
        'Question DB Row
87         QuizRow = QuizRow + 3 'Increment Quiz Row
88     Next ResultRow
89     Application.ScreenUpdating = True
90 End With
91 End Sub
92
93 Sub Quiz_LoadQuizList()
94     QuizGen.Range("B8,E6:F9999" ).ClearContents 'Clear Existing Quizzes and ID's
95     With QuizDB
96         LastRow = .Range("A99999" ).End(xlUp).Row
97         If LastRow < 4 Then Exit Sub
98         .Range("A3:D" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
        "M2:M3" ), CopyToRange:=.Range("O2:P2" ), Unique:=True
99         LastResultRow = .Range("O99999" ).End(xlUp).Row
100        If LastResultRow < 3 Then Exit Sub
101        If LastResultRow < 4 Then GoTo SkipSort
102        'Sort Quizzes alphabetically
103        With .Sort
104            .SortFields.Clear
105            .SortFields.Add Key:=QuizDB.Range("O3" ), SortOn:=xlSortOnValues, Order:=

```

```

1 2 3
106 xlAscending, DataOption:=xlSortNormal 'Sort
107 .SetRange QuizDB.Range("O3:P" & LastResultRow) 'Set Range
108 .Apply 'Apply Sort
109 End With
109 SkipSort:
110 QuizGen.Range("E5:F" & LastResultRow + 2).Value = .Range("O3:P" & LastResultRow
111 ).Value
111 If QuizGen.Range("B4" ).Value <> Empty Then
112 On Error Resume Next
113 QuizGen.Range("B8" ).Value = QuizGen.Range("F5:F" & LastResultRow + 3).Find(
114 QuizGen.Range("B4" ).Value, , xlFormulas, xlWhole).Row
115 On Error GoTo 0
116 End If
117 End With
118 End Sub
119
120 Sub Quiz_LoadUniqueCategories()
121 QuizGen.Range("B7,D6:D9999" ).ClearContents 'Clear Existing Categories
122 With QuizDB
123 LastRow = .Range("A9999" ).End(xlUp).Row
124 If LastRow < 4 Then Exit Sub
125 On Error Resume Next
126 .Names("Criteria" ).Delete
127 On Error GoTo 0
128 .Range("D3:D" & LastRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range(
129 "K2" ), Unique:=True
130 LastResultRow = .Range("K99999" ).End(xlUp).Row
131 If LastResultRow < 3 Then Exit Sub
132 If LastResultRow < 4 Then GoTo SkipSort
133 'Sort Categories Alphabetically
134 With .Sort
135 .SortFields.Clear
136 .SortFields.Add Key:=QuizDB.Range("K3" ), SortOn:=xlSortOnValues, Order:=
137 xlAscending, DataOption:=xlSortNormal 'Sort
138 .SetRange QuizDB.Range("K3:K" & LastResultRow) 'Set Range
139 .Apply 'Apply Sort
140 End With
141 SkipSort:
142 QuizGen.Range("D6:D" & LastResultRow + 3).Value = .Range("K3:K" & LastResultRow
143 ).Value 'Bring categories over to Quiz gen. Sheet
144 If QuizGen.Range("J4" ).Value <> Empty Then
145 On Error Resume Next
146 QuizGen.Range("B7" ).Value = QuizGen.Range("D6:D" & LastResultRow + 3).Find(
147 QuizGen.Range("J4" ).Value, , xlValues, xlWhole).Row
148 On Error GoTo 0
149 End If
150 End With
151 End Sub
152
153 Sub Quiz_New()
154 QuizGen.Range("B4,H4,J4,H6:J6,H11:O999" ).ClearContents 'Clear Existing fields
155 End Sub
156
157 Sub Quiz_Save()
158 With QuizGen
159 QuizName = .Range("H4" ).Value 'Quiz Name
160 QuizDesc = .Range("H6" ).Value 'Quiz Description
161 QuestNumb = 1 'Set initial Question #
162
163 'Check required Fields

```

1 2

```

1 2
160 If QuizName = "" Or QuizDesc = "" Then
161     MsgBox "Please make sure to add in a Quiz Name and Quiz Description"
162     Exit Sub
163 End If
164 If .Range("L4" ).Value = 0 Then
165     MsgBox "Please add in a difficulty level between 1 and 10"
166     Exit Sub
167 End If
168 If .Range("N4" ).Value = 0 Then
169     MsgBox "Please add in a question # between 1 and 30"
170     Exit Sub
171 End If
172
173 If .Range("B5" ).Value = Empty Then 'New Quiz
174     QuizRow = QuizDB.Range("A99999" ).End(xlUp).Row + 1
175     .Range("B4" ).Value = .Range("B6" ).Value 'Set New Quiz ID
176     QuizDB.Range("A" & QuizRow).Value = .Range("B4" ).Value 'Quiz ID
177 Else 'Existing Quiz
178     QuizRow = .Range("B5" ).Value
179 End If
180 QuizID = .Range("B4" ).Value 'QuizID
181 For QuizCol = 2 To 8
182     QuizDB.Cells(QuizRow, QuizCol).Value = .Range(QuizDB.Cells(1, QuizCol).Value).
183     Value 'Add Mapped Data
184 Next QuizCol
185
186 'Save/Update Questions & Answers
187 LastQuestRow = .Range("H99999" ).End(xlUp).Row
188 If LastQuestRow < 11 Then Exit Sub
189 For QuestRow = 11 To LastQuestRow Step 3
190     If .Range("O" & QuestRow).Value = Empty Then
191         QuestDBRow = QuestDB.Range("A99999" ).End(xlUp).Row + 1 'First avail Row
192
193         QuestDB.Range("J" & QuestDBRow).Value = "=Row()" 'Set Row Formula
194         .Range("O" & QuestRow).Value = QuestDBRow 'Set Question DB Row
195     Else
196         QuestDBRow = .Range("O" & QuestRow).Value 'Extract DB Row
197     End If
198     QuestDB.Range("A" & QuestDBRow).Value = QuizID
199     QuestDB.Range("B" & QuestDBRow).Value = QuizName
200     QuestDB.Range("C" & QuestDBRow).Value = .Range("H" & QuestRow).Value
201     'Question
202     QuestDB.Range("D" & QuestDBRow).Value = QuestNum 'Set Question Number
203     QuestDB.Range("E" & QuestDBRow).Value = .Range("H" & QuestRow + 1).Value
204     'Option A
205     QuestDB.Range("F" & QuestDBRow).Value = .Range("I" & QuestRow + 1).Value
206     'Option B
207     QuestDB.Range("G" & QuestDBRow).Value = .Range("J" & QuestRow + 1).Value
208     'Option C
209     QuestDB.Range("H" & QuestDBRow).Value = .Range("K" & QuestRow + 1).Value
210     'Option D
211     QuestDB.Range("I" & QuestDBRow).Value = .Range("M" & QuestRow + 1).Value
212     'Answer
213     QuestNum = QuestNum + 1 'Increment Quest. Numb
214 Next QuestRow
215 End With
216 Quiz_LoadUniqueCategories 'Run Macro to update categories
217 Quiz_LoadQuizList 'Run Macro to update quiz list
218 MsgBox "Quiz Saved"
219 End Sub

```

```

1 Option Explicit
2 Dim ResultRow As Long, ResultCol As Long, LastRow As Long, LastResultRow As Long,
  QuizDBRow As Long
3 Dim QuestNum As Long, OptionNum As Long, QuestResRow As Long, AnsNum As Long
4 Dim ResultID As String, AnsText As String
5 Dim TimerActive As Boolean ' Variable to keep track of timer status
6 Dim NextTime As Date, SetTime As Date
7
8
9 Sub BackToStartQuiz()
10 With Quizzes
11     'Check If Completed
12     .Shapes("NewQuizGrp" ).Visible = msoCTrue
13     .Shapes("QuizGrp" ).Visible = msoFalse
14     .Range("D:E" ).EntireColumn.Hidden = False 'Show Start Columns
15     .Range("F:K" ).EntireColumn.Hidden = True 'Hide Quiz Columns
16     With .Shapes("NewQuizGrp" )
17         .GroupItems("ContQuizBtn" ).Visible = msoCTrue
18         .GroupItems("ContQuizIcn" ).Visible = msoCTrue
19         .GroupItems("StartQuizBtn" ).Visible = msoFalse
20         .GroupItems("StartQuizIcn" ).Visible = msoFalse
21     End With
22     StopTimer
23 End With
24 End Sub
25
26 Sub CompleteQuiz()
27     StopTimer 'Run this regardless if it is one
28     With Quizzes
29         ResultRow = .Range("B3" ).Value
30         If ResultRow = 0 Then BackToStartQuiz
31         QuizResultsDB.Range("G" & ResultRow).Value = .Range("B9" ).Value 'Total
  answered
32         QuizResultsDB.Range("J" & ResultRow).Value = .Range("K3" ).Value 'Time spent
33         .Range("G4" ).ClearContents
34         .Shapes("QuizGrp" ).Visible = msoFalse
35         If Admin.Range("D14" ).Value = "Yes" Then 'Show Results Shape
36             .Shapes("QuizScoreGrp" ).Visible = msoCTrue 'Show Results Shape
37             If Admin.Range("D13" ).Value = "Yes" Then .Shapes("QuizScoreGrp" ).GroupItems
  ("RetakeQuizBtn" ).Visible = msoCTrue Else .Shapes("QuizScoreGrp" ).GroupItems
  ("RetakeQuizBtn" ).Visible = msoFalse 'Show/Hide Retake Quiz Button
38         Else
39             .Shapes("ThankYouGrp" ).Visible = msoCTrue 'Show Thank You Shape
40             If Admin.Range("D13" ).Value = "Yes" Then .Shapes("ThankYouGrp" ).GroupItems(
  "RetakeQuizBtn" ).Visible = msoCTrue Else .Shapes("ThankYouGrp" ).GroupItems(
  "RetakeQuizBtn" ).Visible = msoFalse 'Show/Hide Retake Quiz Button
41         End If
42     End With
43     StopTimer
44 End Sub
45
46 Sub ContinueQuiz()
47     'Check For Required Fields
48     With Quizzes
49         If .Range("B5" ).Value = Empty Then
50             MsgBox "Please select a student from the drop down list"
51             Exit Sub
52         End If
53         If .Range("B6" ).Value = Empty Then
54             MsgBox "Please select a Quiz from the drop down list"
55             Exit Sub

```

1 2 3

```

56     1 2 3 End If
57     .Shapes("NewQuizGrp").Visible = msoFalse
58     .Range("D:E").EntireColumn.Hidden = True
59     .Range("F:K").EntireColumn.Hidden = False 'Show Quiz Columns
60     .Shapes("QuizGrp").Visible = msoCTrue 'Show Quiz Group Shapes
61     If Admin.Range("B11").Value = "Yes" Then .Shapes("QuizGrp").GroupItems(
        "BackToStartBtn").Visible = msoCTrue Else .Shapes("QuizGrp").GroupItems(
        "BackToStartBtn").Visible = msoFalse
62     If Admin.Range("B12").Value = "Yes" Then .Shapes("QuizGrp").GroupItems(
        "PrevBtn").Visible = msoCTrue Else .Shapes("QuizGrp").GroupItems("PrevBtn").
        Visible = msoFalse
63     If Admin.Range("B10").Value = "Yes" Then StartStopWatch
64 End With
65
66
67 End Sub
68 Sub LoadQuestion()
69     With Quizzes
70         QuestNum = .Range("B7").Value 'Question Num
71         .Range("G4").Value = QuestDB.Range("X" & QuestNum + 2).Value 'Set Question #
72         .Range("B10").Value = QuestDB.Range("AD" & QuestNum + 2).Value 'Correct
        Answer
73         'Reset Option Buttons
74         For OptionNum = 1 To 4
75             With Quizzes.Shapes("QuizGrp").GroupItems("Option" & OptionNum)
76                 .TextFrame2.TextRange.Text = Chr(OptionNum + 64) & " " & QuestDB.Cells(
                    QuestNum + 2, 25 + OptionNum).Value 'Set Option text into shapes
77                 .Fill.ForeColor.RGB = RGB(227, 253, 250) 'Button back color to light green
78                 .TextFrame2.TextRange.Font.Fill.ForeColor.RGB = RGB(0, 0, 0) 'Font to
                    black
79             End With
80         Next OptionNum
81         If .Range("B14").Value <> "" Then 'Already Answered
82             AnsText = QuestResultsDB.Range("G" & .Range("B14").Value).Value 'Student
                Answer Text
83             If AnsText = "" Then GoTo AnsCleared 'Answer text cleared on quiz retake
84             .Range("B12").Value = AnsText
85             On Error Resume Next
86             AnsNum = Range(QuestDB.Cells(QuestNum + 2, 26), QuestDB.Cells(QuestNum + 2,
                29)).Find(AnsText, , xlValues, xlWhole).Column - 25
87             On Error GoTo 0
88             If AnsNum <> 0 Then
89                 Quizzes.Shapes("QuizGrp").GroupItems("Option" & AnsNum).Fill.ForeColor.
                    RGB = RGB(8, 127, 113) 'Set Green Background color
90                 Quizzes.Shapes("QuizGrp").GroupItems("Option" & AnsNum).TextFrame2.
                    TextRange.Font.Fill.ForeColor.RGB = RGB(255, 255, 255)
91             End If
92         End If
93         AnsCleared:
94         If ActiveSheet.Name = "Quiz Sheet" Then .Range("H7").Select
95     End With
96 End Sub
97
98 Sub NewQuiz()
99     With Quizzes
100         .Range("K3,B2,B7,B9:B12,E5,E7,E9").ClearContents 'Clear Fields
101         With .Shapes("NewQuizGrp")
102             .GroupItems("ContQuizBtn").Visible = msoFalse
103             .GroupItems("ContQuizIcn").Visible = msoFalse
104             .GroupItems("StartQuizBtn").Visible = msoCTrue

```



```

1 2 3
105     .GroupItems("StartQuizIcn" ).Visible = msoCTrue
106     End With
107     StopTimer
108     End With
109 End Sub
110 Sub NextQuestion()
111     With Quizzes
112         .Range("B7" ).Value = .Range("B7" ).Value + 1 'Increment Question #
113         If .Range("B7" ).Value = .Range("B8" ).Value Then 'Final Question
114             With .Shapes("QuizGrp" )
115                 .GroupItems("FinishQuizBtn" ).Visible = msoCTrue 'Show finish but
116                 .GroupItems("NextBtn" ).Visible = msoFalse 'Hide Next Button
117             End With
118         End If
119         .Range("B12" ).ClearContents 'Clear Student Answer
120         LoadQuestion
121     End With
122 End Sub
123
124 Sub PrevQuestion()
125     With Quizzes
126         If .Range("B7" ).Value = 1 Then
127             MsgBox "You are at the first question"
128             Exit Sub
129         End If
130         .Range("B7" ).Value = .Range("B7" ).Value - 1 'Decrease Question #
131         If .Range("B7" ).Value = .Range("B8" ).Value Then 'Final Question
132             .Shapes("QuizGrp" ).GroupItems("FinishQuizBtn" ).Visible = msoCTrue
133             .Shapes("QuizGrp" ).GroupItems("NextBtn" ).Visible = msoFalse 'Hide Next
134             Button
135         Else
136             .Shapes("QuizGrp" ).GroupItems("FinishQuizBtn" ).Visible = msoFalse
137             .Shapes("QuizGrp" ).GroupItems("NextBtn" ).Visible = msoCTrue 'Hide Next
138             Button
139         End If
140         .Range("B12" ).ClearContents 'Clear Student Answer
141         LoadQuestion
142     End With
143 End Sub
144
145 Sub Quiz_Close()
146     With Quizzes
147         .Shapes("QuizScoreGrp" ).Visible = msoFalse
148         .Shapes("ThankYouGrp" ).Visible = msoFalse
149         BackToStartQuiz
150         NewQuiz
151     End With
152 End Sub
153
154 Sub RetakeQuiz()
155     With Quizzes
156         .Shapes("QuizScoreGrp" ).Visible = msoFalse 'Hide Quiz Score Group
157         .Shapes("ThankYouGrp" ).Visible = msoFalse 'Hide Thank you Group
158     End With
159     'Clear Existing Scores
160     With QuestResultsDB
161         LastRow = .Range("A99999" ).End(xlUp).Row
162         If LastRow < 4 Then Exit Sub
163         .Range("A3:J" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
164             "N2:N3" ), CopyToRange:=.Range("Q2:Y2" ), Unique:=True
165         LastResultRow = .Range("Q99999" ).End(xlUp).Row
166     End With

```

```

163     1 2 3     If LastRow < 3 Then Exit Sub
164         For ResultRow = 3 To LastResultRow
165             QuestResRow = .Range("Y" & ResultRow).Value 'Result DB Row
166             .Range("G" & QuestResRow).ClearContents 'Clear Student Answer
167         Next ResultRow
168     End With
169     'Reset Option Buttons
170     .Range("B7" ).Value = 1 'Set to 1st Question
171     .Range("B9" ).Value = 0 'Set Total answered to 0
172     .Range("B12" ).ClearContents 'Clear Last Student answer
173     .Shapes("QuizGrp" ).Visible = msoCTrue
174     For OptionNum = 1 To 4
175         With Quizzes.Shapes("QuizGrp" ).GroupItems("Option" & OptionNum)
176             .TextFrame2.TextRange.Text = Chr(OptionNum + 64) & " " & QuestDB.Cells(
177                 QuestNum + 2, 25 + OptionNum).Value 'Set Option text into shapes
178             .Fill.ForeColor.RGB = RGB(227, 253, 250)
179             .TextFrame2.TextRange.Font.Fill.ForeColor.RGB = RGB(0, 0, 0)
180         End With
181     Next OptionNum
182     If .Range("B7" ).Value <> .Range("B8" ).Value Then .Shapes("Quizgrp" ).GroupItems
183         ("FinishQuizBtn" ).Visible = msoFalse
184     If Admin.Range("D10" ).Value = "Yes" Then StartStopWatch 'Run timer if option
185         is set to Yes
186     LoadQuestion
187 End With
188 End Sub
189
190 Sub SelectOption()
191     With Quizzes
192         'Reset all shapes to original color
193         For OptionNum = 1 To 4
194             With Quizzes.Shapes("QuizGrp" ).GroupItems("Option" & OptionNum)
195                 .Fill.ForeColor.RGB = RGB(227, 253, 250) 'Light Green
196                 .TextFrame2.TextRange.Font.Fill.ForeColor.RGB = RGB(0, 0, 0) 'Black Font
197             End With
198         Next OptionNum
199         AnsText = .Shapes("QuizGrp" ).GroupItems(Application.Caller).TextFrame2.TextRange
200         .Text 'Answer Text (with letter)
201         AnsText = Right(AnsText, Len(AnsText) - 3) 'Remove Letter
202         .Range("B12" ).Value = AnsText 'Answer Text
203         .Shapes("QuizGrp" ).GroupItems(Application.Caller).Fill.ForeColor.RGB = RGB(8,
204             127, 113) 'Set Background color
205         .Shapes("QuizGrp" ).GroupItems(Application.Caller).TextFrame2.TextRange.Font.Fill
206         .ForeColor.RGB = RGB(255, 255, 255) 'White
207         'Save to DB
208         'Check For Previous Answer
209         If .Range("B14" ).Value = Empty Then 'Not yet saved
210             .Range("B9" ).Value = .Range("B9" ).Value + 1 'Increment Answered questions
211             on newly answered questions
212             QuestResRow = QuestResultsDB.Range("A99999" ).End(xlUp).Row + 1 'First avail
213             Row
214             QuestResultsDB.Range("A" & QuestResRow).Value = .Range("B2" ).Value 'Result
215             ID
216             QuestResultsDB.Range("B" & QuestResRow).Value = .Range("B6" ).Value 'Quiz ID
217
218             QuestResultsDB.Range("C" & QuestResRow).Value = .Range("E9" ).Value 'Quiz
219             Name
220             QuestResultsDB.Range("D" & QuestResRow).Value = .Range("B5" ).Value 'Student
221             ID
222             QuestResultsDB.Range("E" & QuestResRow).Value = .Range("E5" ).Value 'Student

```

```

1 2 3
Name
212 QuestResultsDB.Range("F" & QuestResRow).Value = .Range("B7" ).Value
    'Question #
213 QuestResultsDB.Range("I" & QuestResRow).Value = "=If(G" & QuestResRow &
    "=H" & QuestResRow & ",True,False)" 'Correct Formula
214 QuestResultsDB.Range("J" & QuestResRow).Value = "=Row()" 'DB Row
215 Else 'Existing
216 QuestResRow = .Range("B14" ).Value 'Existing Question Result Row
217 'Check If Answer was cleared, if so then increment answer #
218 If QuestResultsDB.Range("G" & QuestResRow).Value = Empty Then .Range("B9" ).
    Value = .Range("B9" ).Value + 1
219 End If
220 QuestResultsDB.Range("H" & QuestResRow).Value = .Range("B10" ).Value 'Correct
    Answer
221 QuestResultsDB.Range("G" & QuestResRow).Value = AnsText 'Set Answer Text
222 End With
223 End Sub
224 Sub StartQuiz()
225 With Quizzes
226 'Check For Required Fields
227 If .Range("B5" ).Value = Empty Then
228     MsgBox "Please select a student from the drop down list"
229     Exit Sub
230 End If
231 If .Range("B6" ).Value = Empty Then
232     MsgBox "Please select a Quiz from the drop down list"
233     Exit Sub
234 End If
235 Application.ScreenUpdating = False
236 .Range("B9" ).Value = 0 'Reset Questions Answered
237 .Range("B7" ).Value = 1 'Set First question #
238 .Shapes("NewQuizGrp" ).Visible = msoFalse
239 .Range("D:E" ).EntireColumn.Hidden = True
240 .Range("F:K" ).EntireColumn.Hidden = False 'Show Quiz Columns
241 .Shapes("QuizGrp" ).Visible = msoCTrue 'Show Quiz Group Shapes
242 QuizDBRow = .Range("B20" ).Value
243 If QuizDBRow <> 0 Then .Range("K2" ).Value = QuizDB.Range("H" & QuizDBRow).Value
    'Set timer
244 'Save/Update Quiz Results
245 If .Range("B3" ).Value = Empty Then 'New Quiz Result
246     ResultRow = QuizResultsDB.Range("A99999" ).End(xlUp).Row + 1 'First Avail.
        Row
247     .Range("B2" ).Value = .Range("B4" ).Value 'Set Result ID
248     QuizResultsDB.Range("A" & ResultRow).Value = .Range("B2" ).Value 'Set Result
        ID
249 Else 'Existing Quiz Result
250     ResultRow = .Range("B3" ).Value
251 End If
252 For ResultCol = 2 To 7
253     QuizResultsDB.Cells(ResultRow, ResultCol).Value = .Range(QuizResultsDB.Cells(1
        , ResultCol).Value).Value 'Add/Update data
254 Next ResultCol
255 QuizResultsDB.Range("H1:I1" ).Copy
256 QuizResultsDB.Range("H" & ResultRow & ":I" & ResultRow).PasteSpecial
    xlPasteFormulas ' Copy Correct Formulas
257 Application.CutCopyMode = xlCopy
258 Application.ScreenUpdating = True
259 'Load Quiz Question & Options
260 With QuestDB
261     LastRow = .Range("A99999" ).End(xlUp).Row
262     If LastRow < 4 Then Exit Sub

```

```

263   1 2 3   .Range("A3:J" & LastRow).AdvancedFilter xlFilterCopy, CriteriaRange:=.Range(
264         "L2:L3" ), CopyToRange:=.Range("X2:AE2" ), Unique:=True
265         LastResultRow = .Range("X99999" ).End(xlUp).Row
266         If LastResultRow < 3 Then
267             MsgBox "No questions Exist for this quiz"
268             Exit Sub
269         End If
270         If LastResultRow < 4 Then GoTo SkipSort
271         With .Sort 'Sort based on question #
272             .SortFields.Clear
273             .SortFields.Add Key:=QuestDB.Range("Y3" ), SortOn:=xlSortOnValues, Order:=
274                 xlAscending, DataOption:=xlSortNormal 'Sort
275             .SetRange QuestDB.Range("X3:AE" & LastResultRow) 'Set Range
276             .Apply 'Apply Sort
277         End With
278         SkipSort:
279         .Range("B7" ).Value = 1 'Set intial Question #
280         If .Range("B7" ).Value = .Range("B8" ).Value Then 'If Final Question
281             .Shapes("QuizGrp" ).GroupItems("FinishQuizBtn" ).Visible = msoCTrue
282             .Shapes("QuizGrp" ).GroupItems("NextBtn" ).Visible = msoFalse 'Hide Next
283             Button
284         Else 'Not Final Question
285             .Shapes("QuizGrp" ).GroupItems("FinishQuizBtn" ).Visible = msoFalse
286             .Shapes("QuizGrp" ).GroupItems("NextBtn" ).Visible = msoCTrue 'Hide Next
287             Button
288         End If
289         If Admin.Range("D10" ).Value = "Yes" Then StartStopWatch 'Starts time
290         If Admin.Range("D11" ).Value = "Yes" Then .Shapes("QuizGrp" ).GroupItems(
291             "BackToStartBtn" ).Visible = msoCTrue Else .Shapes("QuizGrp" ).GroupItems(
292             "BackToStartBtn" ).Visible = msoFalse
293         If Admin.Range("D12" ).Value = "Yes" Then .Shapes("QuizGrp" ).GroupItems(
294             "PrevBtn" ).Visible = msoCTrue Else .Shapes("QuizGrp" ).GroupItems("PrevBtn" ).
295             Visible = msoFalse
296         LoadQuestion
297     End With
298 End Sub
299
300
301
302 Sub StartStopWatch()
303     Quizzes.Range("K3" ).ClearContents
304     NextTime = 0
305     SetTime = Time
306     Call StartTimer
307 End Sub
308
309 Sub StartTimer()
310     NextTime = Time + TimeValue("00:00:05" )
311     Quizzes.Range("K3" ).Value = Format(NextTime - SetTime - TimeValue("00:00:05" ),
312         "hh:mm:ss" )
313     Application.OnTime NextTime, "StartTimer"
314     DoEvents
315 End Sub
316
317 Sub StopTimer()
318     On Error Resume Next
319     Application.OnTime EarliestTime:=NextTime, Procedure:="StartTimer" , Schedule:=False
320 End Sub

```

```

1 Option Explicit
2 Sub AddNewStudent()
3     Unload AddStudForm
4     AddStudForm.Show
5 End Sub
6
7 Sub SaveNewStudent()
8     Dim StudName As String, Email As String, StudID As String
9     Dim StudRow As Long
10    With AddStudForm
11        StudName = .StudNm.Value 'Student Name
12        Email = .Email.Value 'Email Address
13        If StudName = "" Then 'Check for missing student name
14            MsgBox "Please make sure to add a student name"
15            Exit Sub
16        End If
17        .Hide 'Hide student userform
18    End With
19    StudID = Quizzes.Range("B21").Value 'Next student ID
20    With Students
21        StudRow = .Range("A99999").End(xlUp).Row + 1
22        .Range("A" & StudRow).Value = StudID
23        .Range("B" & StudRow).Value = StudName
24        .Range("C" & StudRow).Value = Email
25        .Range("D1:H1").Copy
26        .Range("D" & StudRow & ":H" & StudRow).PasteSpecial xlPasteFormulas
27
28        'Sort Students By Name
29        .Range("B3:B" & StudRow).AdvancedFilter xlFilterCopy, , CopyToRange:=.Range(
30            "K3" ), Unique:=True
31        With .Sort
32            .SortFields.Clear
33            .SortFields.Add Key:=Students.Range("K4" ), SortOn:=xlSortOnValues, Order:=
34                xlAscending, DataOption:=xlSortNormal 'Sort
35        End With
36
37        .SetRange Students.Range("K4:K" & StudRow) 'Set Range
38        .Apply 'Apply Sort
39    End With
40    Quizzes.Range("E5").Value = StudName 'Set Default Student Name
41 End Sub

```

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# Thank You!

This source code was created and made available to help you gain a better understanding of how VBA is used to create amazing Excel-based applications.

Thank you so much for your continued shares, likes and support. It really helps.



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