DIGITAL ASSIGNMENT - 2

REG NO   : **19BCS0012**

NAME   : **NITHISH G**

COURSE CODE   : **CSC3004**

COURSE   : **VISUAL PROGRAMMING**

DATE   : **28.03.2021**

AIM

Add the following Student Details in your Excel Sheet through your Button control .
Note: Display at least 10 students list in the excel sheet.

i. Student Reg number

ii. Name

iii. Subject1

iv. Subject 2
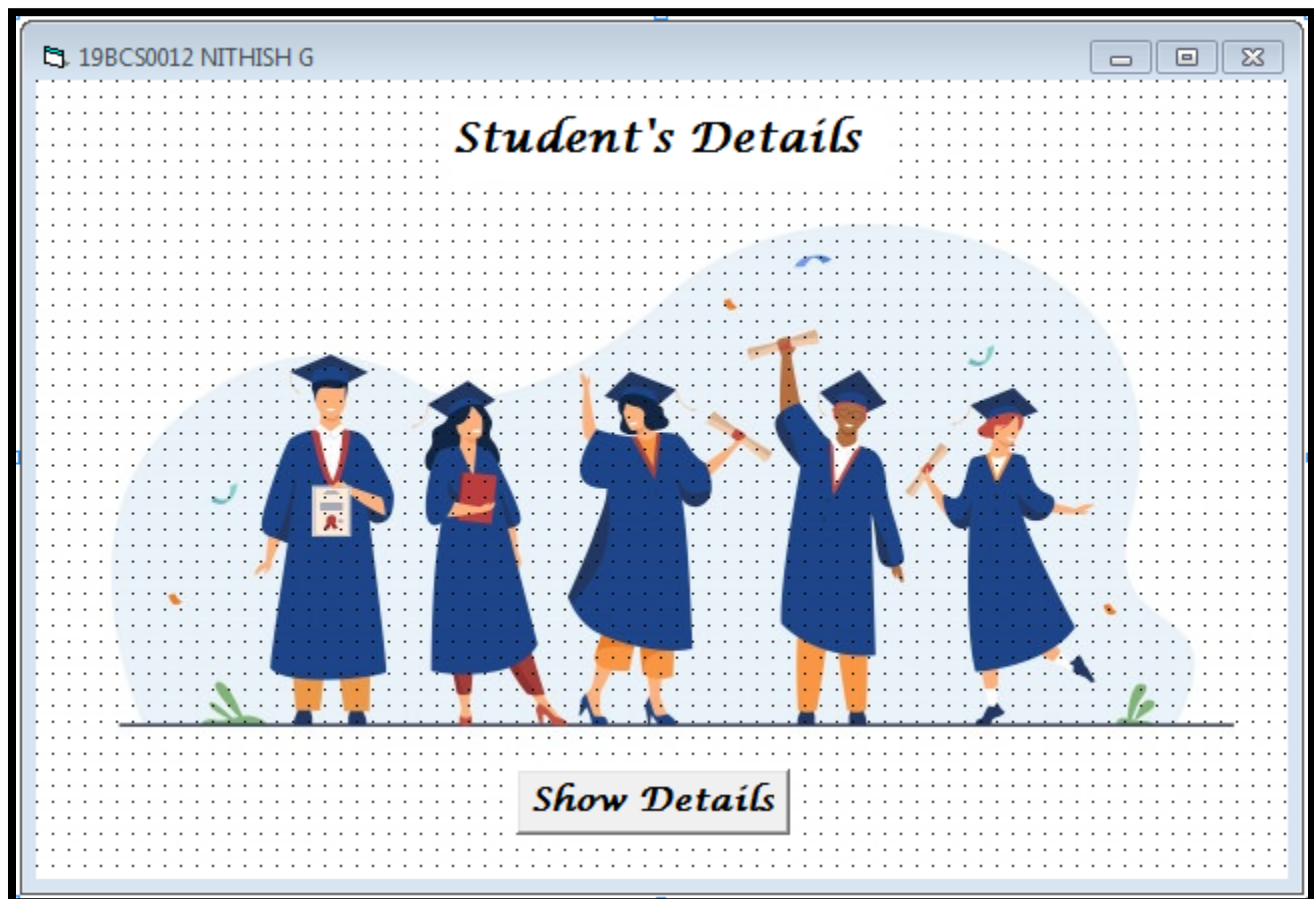
v. Subject 3

vi. subject 4

vii. Subject 5

viii. Total

ix. Average

x. Grade

Write a code to calculate the total, average and grade of every student and display all these details in the Excel Sheet.

DESIGN FORM

Event procedures:

```vb
Private Sub Command1_Click()


Dim ap As Excel.Application

Dim wb As Excel.Workbook

Dim Excel As Excel.Worksheet

Set ap = CreateObject("Excel.Application")

Set wb = ap.Workbooks.Add

Set worksheet = wb.Worksheets(1)

ap.Visible = True


Dim Row, col, i, j As Integer

i = 0 & Row = 0 & col = 0


worksheet.Cells(1, 1).Value = "Student Reg number"

worksheet.Cells(1, 2).Value = "Name"

worksheet.Cells(1, 3).Value = "Subject 1"

worksheet.Cells(1, 4).Value = "Subject 2"

worksheet.Cells(1, 5).Value = "Subject 3"

worksheet.Cells(1, 6).Value = "Subject 4"

worksheet.Cells(1, 7).Value = "Subject 5"

worksheet.Cells(1, 8).Value = "Total"

worksheet.Cells(1, 9).Value = "Average"

worksheet.Cells(1, 10).Value = "Grade"


i = 111          ' for student registration number

For col = 1 To 1

For Row = 2 To 16
```

```vba
worksheet.Cells(Row, col).Value = i

i = i + 1


Next Row

Next col


For col = 3 To 7               'marks for 5 subjects

For Row = 2 To 16


worksheet.Cells(Row, col).Value = RandomInteger(55, 100)


Next Row

Next col

For Row = 2 To 16

For col = 3 To 7

worksheet.Cells(Row, 8) = worksheet.Cells(Row, col) + worksheet.Cells(Row, 8)

Next col


worksheet.Cells(Row, 9) = worksheet.Cells(Row, 8) / 5          ' Average finding

If (worksheet.Cells(Row, 9) < 50) Then                         ' Finding the Grade

worksheet.Cells(Row, 10) = "D"

ElseIf (worksheet.Cells(Row, 9) > 50 And worksheet.Cells(Row, 9) < 60) Then

worksheet.Cells(Row, 10) = "C"

ElseIf (worksheet.Cells(Row, 9) > 60 And worksheet.Cells(Row, 9) < 80) Then

worksheet.Cells(Row, 10) = "B"

ElseIf (worksheet.Cells(Row, 9) > 80) Then

worksheet.Cells(Row, 10) = "A"
```

```vba
    Else

    worksheet.Cells(Row, 10) = "A"

    End If


    Next Row


    worksheet.Cells(2, 2).Value = "Nithish G"

    worksheet.Cells(3, 2).Value = " Ethan"

    worksheet.Cells(4, 2).Value = " Jameson"

    worksheet.Cells(5, 2).Value = " Wyatt"

    worksheet.Cells(6, 2).Value = " Jake"

    worksheet.Cells(7, 2).Value = " Grayson"

    worksheet.Cells(8, 2).Value = " Thor"

    worksheet.Cells(9, 2).Value = " Jackson "

    worksheet.Cells(10, 2).Value = "Kian"

    worksheet.Cells(11, 2).Value = "Cooper"

    worksheet.Cells(12, 2).Value = "Taylor"

    worksheet.Cells(13, 2).Value = "Keena"

    worksheet.Cells(14, 2).Value = "Emmett"

    worksheet.Cells(15, 2).Value = "Laworksheeton"

    worksheet.Cells(16, 2).Value = "Matias"


    End Sub


    Public Function RandomInteger(Lowerbound As Integer, Upperbound As Integer) As Integer
      RandomInteger = Int((Upperbound - Lowerbound + 1) * Rnd + Lowerbound)
    End Function
```

Output Form:

Student's Details

Show Details

Book1 - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K
1	Student Reg number	Name	Subject 1	Subject 2	Subject 3	Subject 4	Subject 5	Total	Average	Grade	
2	111	Nithish G	87	99	93	59	73	411	82.2	A	
3	112	Ethan	79	95	92	59	73	398	79.6	B	
4	113	Jameson	81	57	82	91	87	398	79.6	B	
5	114	Wyatt	68	98	100	68	70	404	80.8	A	
6	115	Jake	68	71	96	57	84	376	75.2	B	
7	116	Grayson	90	79	65	68	64	366	73.2	B	
8	117	Thor	55	90	86	72	63	366	73.2	B	
9	118	Jackson	89	57	100	68	81	395	79	B	
10	119	Kian	92	82	66	98	58	396	79.2	B	
11	120	Cooper	87	76	79	100	76	418	83.6	A	
12	121	Taylor	57	68	59	73	96	353	70.6	B	
13	122	Keena	74	83	100	67	67	391	78.2	B	
14	123	Emmett	94	84	86	62	91	417	83.4	A	
15	124	Lawson	91	67	55	62	72	347	69.4	B	
16	125	Matias	72	67	81	84	68	372	74.4	B	
17											

Sheet1 / Sheet2 / Sheet3

Ready   100%