

WEEK 7 LAB ASSESSMENT

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Code

```
1 reference
1 Public Class frmStudentGrade
2     Dim studentgrades() As Double
3
4     'App Load
5     0 references
6     Private Sub frmStudentGrade_Load(sender As Object, e As EventArgs) Handles MyBase.Load
7         Dim TcName As String
8         TcName = InputBox("Please input teacher's name")
9         lblTcName.Text = "Welcome Sir/Madam/Miss " & TcName
10    End Sub
11
12    'Button Enter
13    0 references
14    Private Sub btnEnter_Click(sender As Object, e As EventArgs) Handles btnEnter.Click
15        txtStudentNumber.Text = Val(txtStudentNumber.Text)
16        If txtStudentNumber.Text <> "" Then
17            If txtStudentNumber.Text <> "0" Then
18                Call InputGrade()
19            Else
20                Call Errors()
21            End If
22        Else
23            Call Errors()
24        End If
25    End Sub
26
27    'Input Sub
28    1 reference
29    Sub InputGrade()
30        Dim student As Integer = CInt(txtStudentNumber.Text)
31        ReDim Preserve studentgrades(student - 1)
32        Dim Z As Integer = 0
33        Do 'Looping
34            studentgrades(Z) = InputBox("Please input student " & Z + 1 & "'s grade", "Student's Grade")
35            Z += 1
36        Loop Until Z = student
37    End Sub
38
39    'Error Sub
40    2 references
41    Sub Errors()
42        MsgBox("Please input a valid value!", MsgBoxStyle.Critical, "Error!")
43    End Sub
44
45    'Average Button
46    0 references
47    Private Sub btnCalcAvg_Click(sender As Object, e As EventArgs) Handles btnCalcAvg.Click
48        txtGradeAvg.Text = Average(CInt(txtStudentNumber.Text))
49    End Sub
50
```

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46 'Average Function
47 1 reference
48 Private Function Average(ByVal student As Integer)
49     Dim Sum, Avg As Double
50     For Z = 0 To student - 1
51         Sum += studentgrades(Z)
52     Next
53     Avg = Sum / student
54     Return (Avg)
55 End Function
56
57 'High Button
58 0 references
59 Private Sub btnGradeHigh_Click(sender As Object, e As EventArgs) Handles btnGradeHigh.Click
60     txtGradeHigh.Text = HighGrade()
61 End Sub
62
63 'High Function
64 1 reference
65 Private Function HighGrade()
66     Dim maximum As Double = studentgrades.Max
67     Return (maximum)
68 End Function
69
70 'Low Button
71 0 references
72 Private Sub btnGradeLow_Click(sender As Object, e As EventArgs) Handles btnGradeLow.Click
73     txtGradeLow.Text = LowGrade()
74 End Sub
75
76 'Low Function
77 1 reference
78 Private Function LowGrade()
79     Dim minimum As Double = studentgrades.Min
80     Return (minimum)
81 End Function
82
83 'Exit Button
84 0 references
85 Private Sub btnClose_Click(sender As Object, e As EventArgs) Handles btnClose.Click
86     Dim result As MsgBoxResult = MsgBox("Close application?", MsgBoxStyle.YesNo, "Closing")
87     If result = MsgBoxResult.Yes Then
88         Me.Close()
89     Else
90     End If
91 End Sub
92 End Class

```

Process:

1. Load

Week_9_Lab Assessment

Please input teacher's name

OK

Cancel

'Affan

2. Front End

Student Grades

Student Grade Management Application

Welcome Sir/Madam/Miss 'Affan

Number of Students:

Enter Grades

Calculate Average

Average Grade:

Find Highest Grade

Highest Grade:

Find Lowest Grade

Lowest Grade:

EXIT

3. Input Box

Student Grades

Student Grade Management Application

Welcome Sir/Madam/Miss 'Affan

Number of Students:

Student's Grade

Please input student 1's grade

4. Sample 1

Student Grades

Student Grade Management Application

Welcome Sir/Madam/Miss 'Affan

Number of Students:

Average Grade:
 Highest Grade:
 Lowest Grade:

5. Sample 2

Student Grades

Student Grade Management Application

Welcome Sir/Madam/Miss 'Affan

Number of Students:

<input type="button" value="Calculate Average"/>	Average Grade:	<input type="text" value="50"/>
<input type="button" value="Find Highest Grade"/>	Highest Grade:	<input type="text" value="70"/>
<input type="button" value="Find Lowest Grade"/>	Lowest Grade:	<input type="text" value="30"/>

6. Sample 3

Student Grades

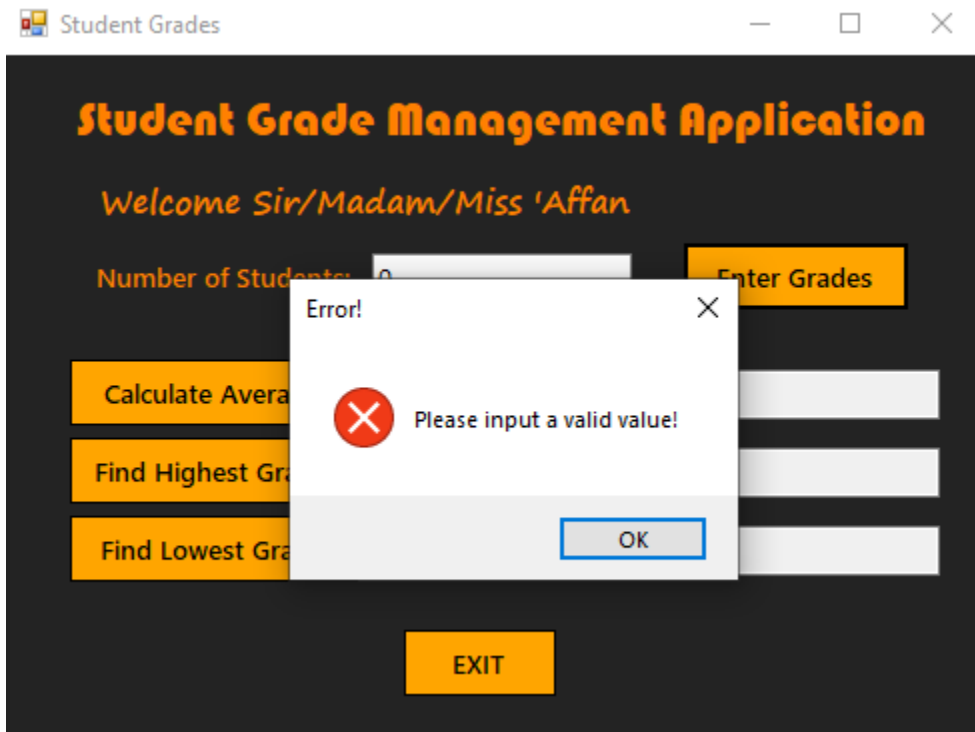
Student Grade Management Application

Welcome Sir/Madam/Miss 'Affan

Number of Students:

<input type="button" value="Calculate Average"/>	Average Grade:	<input type="text" value="40"/>
<input type="button" value="Find Highest Grade"/>	Highest Grade:	<input type="text" value="100"/>
<input type="button" value="Find Lowest Grade"/>	Lowest Grade:	<input type="text" value="0"/>

7. Error Invalid Input



8. Exit Confirmation

