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1 Public Class Form1
2
3     Private Sub Button1_Click(sender As Object, e As EventArgs) Handles Button1.Click
4         'count to 100 by 2's
5         Dim x As Integer
6         x = 0
7         Do
8             MsgBox(x.ToString())
9             x = x + 2
10        Loop While (x <= 100)
11
12
13        'user must enter a positive number
14        'after they have, show the square of the number...
15        Dim num As Integer
16        Do
17            num = InputBox("Enter pos")
18        Loop While (num < 1)
19
20        MsgBox(num * num)
21
22
23        'user must enter between 10-20
24        'then print the number they entered
25        Do
26            num = InputBox("Enter pos")
27        Loop While (num < 10 Or num > 20)
28
29        MsgBox(num)
30
31
32        'keep rolling a six sided die until
33        ' 1000 sixes have been rolled
34        Dim r As Integer
35        Dim six As Integer
36        Do
37            r = Int(Rnd() * 6) + 1
38            If r = 6 Then
39                six = six + 1
40            End If
41        Loop While (six < 1000)
42
43
44        'the user will enter 5 grades. The average of the
45        'grades will be shown afterwards
46        Dim sum As Integer
47        Dim grade As Integer
48        Dim average As Double
49        Dim counter As Integer
50        counter = 0
51        sum = 0
52
53        Do
54            grade = InputBox("Enter a grade")
55            sum = sum + grade
56            counter = counter + 1
57        Loop While counter < 5
58
59        average = sum / 5.0
60        MsgBox("The average was " + average.ToString())
61
62
63    End Sub
64
65    Private Sub Button4_Click(sender As Object, e As EventArgs) Handles Button4.Click
66        'count from 1 to 10 with a for loop
67        For k = 1 To 10
68            MsgBox(k)
69        Next k
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77     'count and add the numbers 3 to 8
78     Dim sum As Integer
79     sum = 0
80     For k = 3 To 8
81         MsgBox(k)
82         sum = sum + k
83     Next k
84
85     MsgBox("The sum is " + sum.ToString())
86
87
88     'user enters a number.  count from 1 to this number.
89     'add up the numbers as we go and show the resulting sum after the loop
90     Dim a As Integer
91     Dim sum As Integer
92
93     sum = 0
94     a = InputBox("enter")
95     For x = 1 To a
96         MsgBox(x)
97         sum = sum + x
98     Next
99     MsgBox("The sum is " + sum.ToString())
100
101
102     'roll a die 100 times.  Count how many 6's were rolled
103     Dim count As Integer
104     Dim roll As Integer
105     count = 0
106
107     For x = 1 To 100
108         roll = Int(Rnd() * 6) + 1
109         If roll = 6 Then
110             count = count + 1
111         End If
112     Next x
113
114     MsgBox("There were " + roll.ToString() + " sixes")
115
116
117     'ask the user how many marks they
118     'want to enter.  let them enter that many marks.
119     'then show the average mark.
120     'then show the highest mark.
121     Dim num As Integer
122     Dim summ As Double
123     Dim average As Double
124     Dim hi As Integer
125     Dim mark As Integer
126     Dim repeat As Integer
127
128     num = InputBox("How many marks?")
129     sum = 0
130
131     For k = 1 To num
132         mark = InputBox("Enter mark " + k.ToString())
133         summ = summ + mark
134         If mark > hi Then
135             hi = mark
136         End If
137     Next
138
139     average = summ / num
140     MsgBox("average: " + average.ToString())
141     MsgBox("hi: " + hi.ToString())
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156
157 'ask the user to enter 10 marks that must be between 1 and 100
158 Dim mark As Integer
159
160 For k = 1 To 10
161
162     Do
163         mark = InputBox("Enter mark 1-100")
164         If mark < 1 Or mark > 100 Then
165             MsgBox("Please enter valid mark")
166         End If
167     Loop While mark < 1 Or mark > 100
168
169 Next k
170
171
172
173 End Sub
174 End Class
175
176
177
178
```