

Worksheet 5

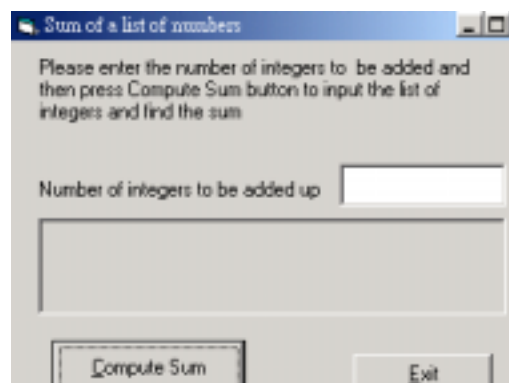
5.1 Try to walkthrough the following program and write down the expected results. Key-in the program and compare the results after execution. This program helps you to understand the use of *do while* statement..

Step 1: Create a form with two command buttons, two labels, one text box and one picture box according to the properties table below

Properties Table

Object	Property	Setting
Form	Name Caption	frmAddUp Sum a list of numbers
Command Button	Name Caption	cmdCompute &Compute Sum
Command Button	Name Caption	cmdExit &Exit
Label	Name Caption	LblNumOfData Number of integers to be added up
Label	Name Caption	lblMessage Please enter the number of integers to be added and then press Compute Sum button to input the list of integers and find the sum
Text Box	Name Caption	TxtNumOfData (empty)
Picture Box	Name Caption	picOutput (empty)

Layout



Step 2 : *Add codes for the events*
cmdCompute_Click()
cmdExit

Codes for **cmdCompute**

```
Private Sub cmdDisplay_Click()

    Dim NumOfData As Integer, LeftToRead As Integer
    Dim Num As Single, Sum As Single
    picOutput.Cls

    NumOfData = Val(txtNumOfData.Text)
    LeftToRead = NumOfData
    Sum = 0

    Do While LeftToRead > 0
        Num = Val(InputBox("Input an integer", "Data input"))
        Sum = Sum + Num
        LeftToRead = LeftToRead - 1
    Loop

    picOutput.Print "The sum of the "; NumOfData; " numbers is "; Sum
End Sub
```

Codes for **cmdExit**

```
Private Sub cmdExit_Click()
    End
End Sub
```

Step 3 : *Execution*

Click the **txtNumOfData** text box and type 4.
 Enter 4 integers : **70**<CR> **5**<CR> **126**<CR> **9**<CR>
 Click the **Compute Sum** command button.
 Try other values for **txtNumOfData** and enter appropriate numbers of integers.
 Terminate the program by clicking the **Exit** button.

Task : Rewrite the above program by using

- (a) *do Loop until* statement
 - (b) *for* statement
- instead of *do while ...* statement.