

Option Explicit

```
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,  
' Solutions to (a), (b), (c), (d) on "Programming Problems whose  
' Solutions Require the Use of Counted or Conditional Loops"  
,  
.....
```

```
'Solution to (a)
```

```
Private Sub Command1_Click()
```

```
    Dim Sum As Long, I As Integer
```

```
    Sum = 0 'Initialize the sum to zero
```

```
    For I = 2 To 1000 Step 2
```

```
        Sum = Sum + I 'Increase the sum by the value of "I"
```

```
    Next I
```

```
    Label1.Caption = "2+4+6+8+...+994+996+998+1000 = " & CStr(Sum)
```

```
End Sub
```

```
'Solution to (b)
```

```
Private Sub Command2_Click()
```

```
    Dim Sum As Long, I As Integer
```

```
    Sum = 0 'Initialize the sum to zero
```

```
    I = 1 'Initialize the counter variable to the lowest odd positive number
```

```
    Do
```

```
        Sum = Sum + I 'Increase the sum by the value of "I"
```

```
        I = I + 2 'Increase the value of the counter by 2 (next odd number)
```

```
    Loop While Sum <= 1000 'Alternatively this could be "Loop Until Sum > 1000"
```

```
    Label1.Caption = "1+3+5+...+" & CStr(I - 2) & " = " & CStr(Sum)
```

```
End Sub
```

```
'Solution to (c)
Private Sub Command3_Click()

    Dim Product As Double, I As Integer

    Product = 1 'Initialize the product to one

    For I = 5 To 645 Step 5

        Product = Product * I 'Multiply the product by the value of "I"

    Next I

    Label1.Caption = "5*10*15*20*...*630*635*640*645 = " & CStr(Product)

End Sub
```

```
'Solution to (d)
Private Sub Command4_Click()

    Dim Product As Double, I As Integer

    Product = 1 'Initialize the product to one
    I = 5

    Do

        Product = Product * I 'Multiply the product by the value of "I"
        I = I + 5

    Loop Until Product > 1000000

    Label1.Caption = "5*10*15*...* " & CStr(I - 5) & " = " & CStr(Product)

End Sub
```