VISUAL BASIC REVISION TOUR AND CONTROL STRUCTURE

Q1. Change the following code using FOR loop without effecting the output

```
Dim count as integer
       ans = 1
       count = 20
       DO
               ans = ans * count
               count = count - 2
       LOOP UNTIL count < = 10
       Print ans
       Dim count as integer
Ans.
       ans = 1
       for count=20 to 11 step -2
               ans = ans * count
       next
       Print ans
Q2 Find the errors from the following code segment and rewrite the corrected code.
       Dim num=10, las Integer
       I = I
       Do While 1 < 5
               1 = 1 + 2
               If num > 15
                     num = 0
               Else
                     num = num - 3
               Endlf
       End While
       Dim num=10 as Integer
Ans.
       I = 1
       DO While I < 5
               I = I + 2
               If num > 15
                       num = 0
               Else
                       num = num - 3
               Endlf
       LOOP
Q3. Rewrite the following code segment using Select Case statement :
       If ch = "A" Then
               countA = countA + 1
       Elself ch = "B" Then
               countB = countB + 1
       Elself ch = "C" Then
               countC = countC + 1
       Else
               countE = countE + 1
       End If
Ans.
       Select case ch
       case "A"
               countA=countA+1
       case "B"
               countB=countB+1
       case "C"
               countC=countC+1
```

```
case else
               countE=countE+1
       End Select
Q4 Write the output that the following code segment will generate :
       x="Class"
       Print Mid (LTrim( "Computer Science" ),1,4)+"One"
       Print(7*4>8+3) And (3^2 < 6/2)
       Print InStr("Computers", "ut")
Ans
       CompOne
       False
       5
Q5 Write the following code segment using For Loop :
       I=6
       x=I
       Do While I>=1
               x=x-2
               If x=0 Then
                       Print "Zero"
               End If
               Print I
               I=I-2
       Loop
Ans.
       1=6
       x=I
       for I=6 to 1 step -2
               x=x-2
               if x=0 Then
                       Print "Zero"
               End If
               Print I
       Next
Q6 Rewrite the following code using If Elself
       Select Case Code
       Case Is > 45
               Messagel = "Ersor"
       Case 10 To 20
               Message 1 = "Accounts"
       Case 21 To 30
               Message 1 = "Personnel"
       Case 31 To 45
               Message 1 = "EDP"
       Case Else
               Message 1 = "Access Denied"
       End Select
Ans
       If code>45 Then
               Message1="Ersor"
       Else If code \geq 10 And code \leq 20 Then
               Message1="Accounts"
       Else If code > 20 And code <= 30 Then
               Message1="Personnel"
```

```
Else If code > 30 And code <= 45 Then
                Message1="EDP"
       Else
                Message 1 = "Access Denied"
       End If
Q7 Write the output that the following code segment will generate
        Stringl = "Class XII"
        String2 = "XI"
       Print Stringl + String2
       Print InStr (Stringl, String2)
       Print Mid (LCase(Stringl), 6, 3)
Ans.
       Class XII XI
        7
       xi
Q8 How many times will the following loop execute?
       I = 6
       Do While I > = 0
                I = I - 2
                Print I
       Loop
Ans.
           4 times
Q9. Differentiate between fixed and variable length string?
```

Ans.

Fixed length string :-

1. These string occupy same amount of memory for every data element that is stored.

2. Extra char from larger string are removed and smaller string are padded with spaces on the right Variable length string:-

1. Memory occupied depends upon the information stored.

2. The variable length string can store string of any length without modification.

Q10. what is control array.? What is it's utility? Ans.

A control array is a group of control that share the same name and type. A control array has at least one element and can grow up to 32767 elements.

Use of control array:-

1. control array use fewer resources than multiple control on same type.

2. code can be shared among the elements of a control array.

Q 11. Mr. amit works in abc public school as a programmer. He is required to develop a student record. The school offers two different streams medical and non-medical with different grading criteria. The school also offers incentive to the NCC cadets in form of 3% increment in percentage for all the NCC cadets

🛎 Project1 - Form1 (Form)	
🐃 Form1	
ABC Public School	
First Term	
Second Term O Medical	
Percentage Contract Non Medical	
Grade	
I NCC Cadets	
Clear Calculate Percentage Calculate Grade	-
	► //.

```
(a) write command to disable the textboxes txtPercentage and txtGrades
```

```
Ans. Private Sub Form_Load()
```

```
txtPercentage.Enabled = False
txtGrades.Enabled = False
End Sub
```

(b)write the code for cmdClear Command Button to clear all the textboxes and checkbox Ans.

```
Private Sub cmdClear_Click()

txtFirstTerm.text = """

txtSecondTerm.text = """

txtPercentage.text = """

txtGrade.text = """

chkCadet.Value = vbUnchecked

End Sub
```

(c) write the code for cmdCalcPer to calculate the percentage after finding the total marks of the first term and second term. Also ensure that NCC cadets gets an increment of 3% in their percentage. Ans.

```
Private Sub cmdCalcPer_Click()
```

```
Total = Val(txtFirstTerm.Text) + val(txtSecondTerm.Text)
Perc = Total/200*100
If chkCadets.Vlaue = vbChecked
Perc = Perc+3
End If
txtPercentage.Text=Perc
```

End Sub

Q12 Mr. Robet a financiers frequently need to calculate the interest and amount due from his client. He asks his software programmer to design an interest calculator which will calculate the compound interest and amount due if a person take a loan for 5,10 or 15 years. The programmer opts for VB to develop this.



a. write the code to disable the textboxes txtInterest and txtAmount in form load event of frmInterestCalc. Ans.

Private Sub frmInterestCalc_Load() txtInterest.Enabled=Flase txtamount.Enabled=Flase End Sub

```
End Sub
```

b. Write the code for cmdClear command button to clear all textboxes and sel default choice in option button opt5Years. Also set focus to txtPrinciple.

Ans.

Private Sub cmdClear_Click() txtPrinciple.Text=""" txtRate.Text=""" txtAmount.Text=""" txtInterest.Text=""" opt5Years.value=True txtPrinciple.setFocus

c. write the code for the change event of textboxs txtPrinciple and txtRate to ensure that the user enters only numeric values.

Ans.

Private Sub txtPrinciple_Change() If Not (IsNumeric(txtPrinciple.Text) Then Msgbox("enter numeric value") txtPrinciple.Text="" txtPrinciple.SetFocus End If

End Sub

End Sub

```
Private Sub txtRate_Change()
If Not (IsNumeric(txtRate.Text) Then
Msgbox("enter numeric value")
txtRate.Text="""
txtRate.SetFocus
End If
```

End Sub