Visual Basic Name -

Unit 10 Practice Test – While loops & arrays

Period -

Short Answer - Trace the following code segments & circle the final value of each variable. If an error would occur, explain it. If an infinite loop occurs, write "infinite loop".

```
Dim num As Integer = 1
                                                            num
While (num <= 3)
  num += 1
End While
2.
Dim num As Integer = 5
                                          num
                                                      sum
Dim sum As Integer = 0
While (sum < 20)
  sum += num
  num += 4
End While
3. Assume the user inputs the values 10, 5, 3, -1 in this order.
Dim score As Integer = 0
                                                            total
                                                                         score
Dim total As Integer = 0
While (score <> -1)
   score = InputBox("Enter a score: ")
  If (score = -1) Then
       Exit While
   Else
        total += score
   End If
End While
Trace the following code segments that use the array mNums & show the output. Write "error" if necessary.
Dim mNums() As Integer = \{13, 5, 8, 3\}
                                   _____
_____
Dim J As Integer = 0
Label4.Text = mNums(1)
Label5.Text = mNums(2) - mNums(3)
______
Dim total As Integer = 0
                         <u>J</u> total
For J = 0 To 3
  total += mNums(J)
Next.
Label6.Text = total 6. _____
Dim sum As Integer = 0
For J = 1 To mNums.Length() - 1 J
                                     sum
  sum += mNums(J)
Next
Label7.Text = sum
```

Answer the following on the back of the paper

- 8. Write a code segment that uses a While loop to add up the integers from 13 to 19 inclusive storing the sum in a variable named sum.
- 9. Write a code segment that uses a While loop to add all the integers typed by a user into an InputBox until the user inputs -1. Do not add the -1 to the running total. Be sure to declare any necessary variables.
- 10. Write out the Hello World program.