CSC180 Homework 1
(Due September 20, 2018, in class, 4)

NAME:

Write your answer in the blank line next to each question.

_____ 1. The following lines of code are valid. (T/F)

Private Sub txtBox1.Click(...) Handles txtBox1.Click
    txtBox.Text = Hello
End Sub

_____ 2. Do Exercise #14 in the textbook p.85.

_____ 3. The following two statements are not equivalent. (T/F)

Statement 1: var1 = var2
Statement 2: var2 = var1

_____ 4. What is the value of numVar after the following three statements are executed?

Dim numVar As Integer = 1
numVar = numVar + 2
numVar += 3

_____ 5. What will be the output of the following lines?

Dim alphabet, soup As String
alphabet = "AppleAndBanana"
soup = alphabet.ToUpper
txtBox.Text = alphabet.Substring(0, 3) & soup.Substring(0, 1)

(A) appa
(B) AppA
(C) APPA
(D) Appa

_____ 6. What will be the output of the following line?

txtBox.Text = "2" & 3

(A) 23
(B) 2 3
(C) 5
(D) Syntax error
7. What will be the contents of the variable \( x \) after the following statement is executed?

\[
x = \text{Math.Sqrt}(((5 + 3) / (2 * 2)) + 2)
\]

(A) 1  
(B) 2  
(C) 3  
(D) 4  
(E) None of the above

8. What value will be assigned to the numeric variable \( x \) when the following statement is executed?

\[x = 4 + 4 * 4\]

(A) 20  
(B) 14  
(C) 32  
(D) 234

9. Which of the following statements will place "Greetings" in the title bar of a form?

(A) Me.Title = "Greetings"  
(B) Me.Text = "Greetings"  
(C) Me.Name = "Greetings"  
(D) Me.Heading = "Greetings"

10. Suppose the Double variable \( num \) has the value 123.4567. What value will the following statement assign to \( num \)?

\[
num = \text{Math.Round}(num)
\]

(A) 123.4567  
(B) 123.457  
(C) 123.46  
(D) 123

11. Assume that \( x \), \( y \), and \( temp \) are Integer variables. Which of the following lines of code swaps the values of \( x \) and \( y \)?

(A) \( x = y \)  
\( y = x \)

(B) \( x = temp \)  
\( x = y \)  
\( y = temp \)

(C) \( temp = x \)  
\( x = y \)  
\( y = temp \)

(D) \( x = y \)  
\( temp = x \)  
\( y = temp \)
12. Which of the following statements removes all text from lstBox?

(A) lstBox.Clear()
(B) lstBox.Items.Clear()
(C) lstBox.Clear.Items()
(D) lstBox.Items.Add(""")

13. Which of the following statements declare the variables \(a\) and \(b\) as type Integer?

(A) \(a = 0; \ b = 0\)
(B) \(\text{Dim } a \& b \text{ As Integer}\)
(C) \(\text{Dim } a, b \text{ As Integer}\)
(D) \(\text{Dim } a, b\)

14. What will be displayed when the following lines are executed?

```vbnet
Dim x As Double = 2, y As Double = 3
Dim z As Double
z = x + (y * x)
x = y
z = x + z
lstBox.Items.Add(x + z)
```

(A) 17
(B) 14
(C) 11
(D) None of the above

15. Keywords in Visual Basic are words that

(A) should be used when naming variables.
(B) are used to name controls, such as TextBox1, Command2, etc.
(C) have special meaning and should not be used when naming variables.
(D) are used as prefixes for control names (such as txt, btn, lbl, and lst).

16. What will be the value of \(numVar\) when the following code is executed?

```vbnet
Dim strVar As String, numVar As Integer
strVar = "Now is the time for all good men"
numVar = strVar.IndexOf("the time for")
```

(A) "Now is all good men"  (B) "9"  (C) 8  (D) 7

17. Which of the following expressions will yield the string "John Doe", where name1 = "John Blake" and name2 = "Janet Doe"?

(A) name1.Substring(0, 4) & name2.Substring(6, 8)
(B) name1.Substring(0, 5) & name2.Substring(6, 3)
(C) name1.Substring(0, 4) & name2.Substring(0, 3)
(D) None of the above.
18. Suppose you are 20 years old, *num* is an integer variable, and the statement

```
um = 2 + CInt(InputBox("How old are you?"))
```

is executed and responded to? What will be the output of

```
txtBox.Text = num & " years old"
```

(A) 1 + "How old are you?"
(B) Syntax error
(C) 21 years old
(D) 22 years old

19. What will be displayed when the following lines are executed?

```
Dim fmtStr As String = "{0,-4:C2}{1, 6:P1}"
lstBox.Items.Add("123456789012")
lstBox.Items.Add(String.Format(fmtStr, 2.25, 0.375))
```

(A) 123456789012   (B) 123456789012   (C) 123456789012   (D) 123456789012

$2.25  37.5%       $2  0.375 %        $2.25  37 %        $2  37.5 %

20. What is the displayed in the title bar of the message dialog box by the following statement?

```
MessageBox.Show("This is a test.", "Test")
```

(A) This is a test.
(B) Nothing.
(C) Test
(D) The same as the name of the program.