

Santiago Canyon College

Computer Science 205
Advanced VB Programming
Fall 2011
Final Exam

Please read each question carefully and choose the best answer. Each question is worth 3 points.

1. Visual Studio uses ADO to manipulate several types of databases. Which of the following are needed to make such a project function?
 - A. data view object, data grid, data adapter
 - B. connection, adapter, SQL table.
 - C. data adapter, connection, dataset
 - D. data adapter & dataset
 - E. data view object, adapter, SQL table

2. What two things are passed to an SqlDataAdapter when you instantiate it?
 - A. SQL query & Connection object
 - B. DataView & DataSet names
 - C. DB Provider and DB path
 - D. Connection string and datagrid
 - E. DataSet & DB table name

3. What is the default folder in a VB project?
 - A. \project
 - B. \obj\bin
 - C. \bin\debug
 - D. None of these

4. The data adapter relies on the _____ object to know which database we are using and where it is located.
 - A. DataView
 - B. DataSet
 - C. SQL string
 - D. Datagrid
 - E. None of these

5. I can use a Setting in my solution to hold my connection string.
- A. True
 - B. False
6. When the following is executed, all records in the employees table are retrieved.
SQL = "SELECT * From Employees Order By LastName"
- A. True
 - B. False
7. What is happening in this code?

runningTotal = runningTotal + CDec(txtPrice.Text)

- A. It is adding runningTotal twice.
- B. It converts runningTotal to a string.
- C. It converts runningTotal to a decimal.
- D. None of the above

8. What does **Option Explicit On** mean?

- A. It creates automatic variables.
- B. It forces us to use only integers.
- C. It creates "Local-Scope" variables.
- D. None of these are true

9. In the code below, what is "description"?

Try

```
SqlDataAdapter1.Fill(DsCustomers2, "tblcustomers")  
DAProducts.Fill(DsProducts2, "tblproducts")
```

Catch

```
MsgBox("There was an error loading the database" & Err.Description)  
Me.Close()
```

End Try

- A. It is a property of the error object.
- B. It is the caption of the message box.
- C. It is a property of the Err class I created.
- D. Both b & c are correct.
- E. None of these are true.

10. Look at the following code. What does line 2 do?

```
Private Sub btnCombo1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
```

1. lstOrder.Items.Add(btnCombo1.Text)
2. lstPrices.Items.Add(FormatNumber("5.50"))
3. runningTotal = runningTotal + CDec(5.5)
4. lblSubTotal.Text = FormatNumber(runningTotal.ToString)

```
End Sub
```

- A. It adds what is in the textbox to the list of items in the Listbox & formats it without a "\$" sign.
 - B. It takes the item in the listbox and puts it into the textbox & formats it without a "\$" sign.
11. Microsoft created ADO to operate using a disconnected data model.
- A. True
 - B. False
12. An ADO Dataset object can hold more than one table.
- A. True
 - B. False
13. If I want to create a new SQL database, what options do I have?
- A. Create the DB in Server Explorer.
 - B. Add the .mdf file to my project.
 - C. Both A & B are correct
14. If I want to read a sequential file in VB, I must open the file for append first.
- A. True
 - B. False
15. Which of the following will make a number have a "\$" in front of it?
- A. FormatNumber(Total)
 - B. FormatDecimal(Total).
 - C. FormatCurrency(Total).
 - D. Format\$(Total).
 - E. None of the above

16. What does "btnFirst.PerformClick()" most likely do?
- A. It shows a message box telling the user to click the btnFirst button.
 - B. It tells VB to end the program.
 - C. It closes the active form.
 - D. It makes VB execute the code in the btnFirst click event.
 - E. It creates a new VB class called "PerformClick"

17. In this code, why do I use "ToString"?

```
lblTax.Text = salesTax.ToString
```

- A. Because I don't know what I am doing!
 - B. It saves salesTax as string data so it will work better with a label control.
 - C. It makes my program run faster.
 - D. It saves memory in my computer.
18. How many arguments does the following expect?

```
Private Function DoTax(ByVal Quant As Integer, ByVal Price As Decimal) As Decimal
```

```
Return FormatNumber(Quant * Price * SALESTAX, 2)
```

```
End Function
```

- A. 1
- B. 2
- C. 3

19. Look at the following....

Public Class Checkout

```
Function DoTax(ByVal Quant As Integer, ByVal Price As Decimal, ByVal SALESTAX As Decimal) As Decimal
```

```
    Return FormatNumber(Quant * Price * SALESTAX, 2)
```

```
End Function
```

```
Function DoSubTotal(ByVal Quant As Integer, ByVal Price As Decimal) As Decimal
```

```
    Return FormatNumber(Quant * Price, 2)
```

```
End Function
```

End Class

How does the "outside world" see DoTax?

- A. As a property.
 - B. As a method.
 - C. As an event.
 - D. As an array.
 - E. As a function.
20. In #19, what type of data is returned by DoSubTotal?
- A. integer
 - B. short
 - C. decimal
 - D. string
 - E. single precision
21. In #19, "checkout" is a built-in VB function.
- A. True
 - B. False
22. A variable created at the module or class-level can be used or accessed any where in the form it was created in.
- A. True
 - B. False

23. Look at this. What must happen in order for the message box to appear?

```
If txtPin.Text.Trim = "" Then
    MessageBox.Show _
    ("Please enter your PIN", "Ron's ATM Service", MessageBoxButtons.OK,
    MessageBoxIcon.Exclamation)

    txtPin.Focus()
Else
    GetAccount()
End If
```

- A. The txtPin text box must have a number in it.
- B. The data must not be trimmed.
- C. The data has to be trimmed.
- D. The txtPin text box must be empty.

24. This code makes the object invisible.

```
txtPin.Enabled = False
```

- A. True
- B. False

25. What in the world does this code do?

```
lblNumItems.Text = "You purchased " & numItems & " items."
```

- A. I am including the actual number of items chosen into a string sentence.
- B. I am adding this sentence to a list box.
- C. It will display the sentence in a messagebox.
- D. All of these are true

26. What does the following code do?

```
Dim MyReader As New StreamReader(ProductsFile)
```

```
Dim LineOfText As String
```

```
LineOfText = MyReader.ReadLine
```

```
Do While LineOfText <> ""
```

```
    lbItems.Items.Add(LineOfText)
```

```
    LineOfText = MyReader.ReadLine
```

```
Loop
```

```
MyReader.Close()
```

- A. It reads an MS Access table
 - B. It reads a SQL table
 - C. It reads a random access file.
 - D. None of these
27. In #26, what do I use to read the file?
- A. The streamreader class from the .Net framework.
 - B. The MyReader class from the .Net framework.
 - C. The InBuf function from the System.Windows.Forms namespace.
 - D. None of these
28. Visual Studio .Net allows us to write programs in several languages. When you compile your application in VS, it is turned into
- A. machine code.
 - B. assembly language.
 - C. MS intermediate language.
 - D. a C++ application.
29. In a VB project, what does "Inherits System.Windows.Forms" mean?
- A. It tells VB where to get the specifications to make my new object.
 - B. My new object will be a clone of the original from the .Net framework.
 - C. I am using inheritance in my project.
 - D. All of these sound pretty good.
30. When I keep all the functionality of a section of code inside an object, I am using the concept of
- A. inheritance.
 - B. class inheritance.
 - C. form inheritance.
 - D. encapsulation.
 - E. concatenation.

31. Look at this code:

```
Property Quantity() As Integer
    Get
        Quantity = m_intQuantity
    End Get

    Set(ByVal Value As Integer)
        If Value >= 0 Then
            m_intQuantity = Value
        End If
    End Set
End Property
```

If I want to change the value of the property, which part will execute?

- A. The Get block.
 - B. The Set block
 - C. The Quantity block
 - D. None of these
32. Look at #31 again. From what you know about creating properties, what would you assume m_intQuantity is?
- A. An enumeration
 - B. A module-level or field variable
 - C. A static variable
 - D. A constant
33. If you pass a variable to a procedure using "ByVal", VB creates a copy of the variable and does not alter the original value.
- A. True
 - B. False
34. The main difference between a VB function and a VB subroutine is that a subroutine **always** returns a result.
- A. True
 - B. False

35. The connection object is used to actually get the records we want from a SQL database.
- A. True
 - B. False
36. In VB, what data types can I use to represent currency?
- A. Currency, integer, double.
 - B. Double, single, currency.
 - C. Single, double, decimal.
 - D. Single, short, double, float.
 - E. Double, smallmoney, single, tinymoney.
37. What does it look like I am doing in this code?
- ```

lstProducts.Items.Add("Birds 49.95 bird.jpg")
lstProducts.Items.Add("Horse 649.95 colt.jpg")
lstProducts.Items.Add("Fish 4.95 fish.jpg")
lstProducts.Items.Add("Cats 29.95 kitten.jpg")
lstProducts.Items.Add("Puppy 29.95 puppy.jpg")

```
- A. Filling a text box full of stuff.
  - B. Adding a bunch of photos to a list box.
  - C. Adding items, prices, and the name of a photo file to a list box.
  - D. None of these sound so good
38. Lets say I have a textbox so the user can type in their PIN#. How do I disguise or hide the number they are typing?
- A. Convert the text box into a Masked-Edit control then change the text to a "\*".
  - B. Change the Enable.Text property to "\*".
  - C. Change the **PasswordChar** property of the Form to a "\*".
  - D. Change the **PasswordChar** property of the textbox to a "\*".

The End