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Exam : Microsoft 70-306

Title : Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET

1. You use Visual Studio .NET to create a Windows-based accounting application. Your application will be deployed on computers running Windows 98, Windows 2000 Professional, and Windows XP Professional.

You must ensure that your application records information about errors raised from calls to a procedure named UpdateData. To do so, you plan to implement logging features.

Which code segment should you use?

A. Dim oLog As New EventLog()

Dim oType As EventLogEntryType

Try

UpdateData()

Catch oEx As Exception

If Not EventLog.SourceExists("AccountingApp")

Then EventLog.CreateEventSource("AccountingApp", _ "Application")

End If

oLog.Source = "AccountingApp"

oLog.Log = "Application"

oType = EventLogEntryType.Error

oLog.WriteEntry("Error details: " & _ oEx.Message, oType)

End Try

B. Dim IFH As Long

Try

UpdateData()

Catch oEx As Exception IFH = FreeFile()

Open logfilePath For Append As #IFH

Print #IFH, oEx.Message

Close #IFH

End Try

C. Dim oWriter As New _ IO.StreamWriter(IO.File.Open(logfilePath, _

IO.FileMode.Append)) Dim oListener As New _

TextWriterTraceListener(oWriter)

Debug.Listeners.Add(oListener)

Try

UpdateData()

Catch oEx As Exception

Debug.WriteLine(oEx.Message)

oWriter.Flush()

oWriter.Close()

```

oWriter = Nothing
End Try
D. Dim oWriter As New _ IO.StreamWriter(IO.File.Open(logfilePath, _ IO.FileMode.Append))
Dim oListener As New _ TextWriterTraceListener(oWriter)
Trace.Listeners.Add(oListener)
Try
UpdateData()
Catch oEx As Exception
Trace.WriteLine(oEx.Message)
Trace.Listeners.Clear()
oWriter.Close() oWriter = Nothing
End Try
Answer: D

```

2. You develop a Windows-based application that uses several functions to calculate a given inventory quantity. This quantity is stored in a variable named IQuantity.

When you test your application, you discover that the value of IQuantity sometimes falls below zero. For debugging purposes, you want your application to generate an error message in such cases. You also want to be able to view the call stack to help identify the function call that is causing the miscalculation.

You need to insert additional code after the calculation of IQuantity. Which code segment should you use?

- A. Trace.Assert(IQuantity >= 0, _ "Inventory cannot be less than zero.")
- B. Trace.Assert(IQuantity < 0, _ "Inventory cannot be less than zero.")
- C. Trace.Fail(IQuantity >= 0, _ "Inventory cannot be less than zero.")
- D. Trace.WriteLinef(IQuantity < 0, _ "Inventory cannot be less than zero.")

Answer: A

3. You develop a Windows-based application named CustOrders. You implement the Trace object within your application code. You will use this object to record application information, such as errors and performance data, in a log file.

You must have the ability to enable and disable Trace logging. This functionality must involve the minimum amount of administrative effort.

What should you do?

- A. Create a Boolean constant in your application named #TraceLogging and set it to False .
Each time your code uses Trace logging, use a #If?Then statement to evaluate your #TraceLogging constant.
- B. On each computer that will host your application, create an environment variable named CustOrders.Trace.
Set the environment variable to True when you want to enable Trace logging. Set it to False when you want to disable Trace logging.
- C. On each computer that will host your application, edit the shortcut used to start your application.
Add /d:TRACE=True to the Target property.
- D. Use the TraceSwitch class within your code.

Each time your code uses Trace logging, consult the TraceSwitch level to verify whether to log information.

Change the TraceSwitch level by editing your application's .config file.

Answer: D

4. You use Visual Studio .NET to create a Windows-based application. The application captures screen shots of a small portion of the visible screen.

You create a form named CameraForm. You set the CameraForm.BackColor property to Blue. You create a button on the form to enable users to take a screen shot.

Now you need to create a transparent portion of CameraForm to frame a small portion of the screen. Your application will capture an image of the screen inside the transparent area. The resulting appearance of CameraForm is shown in the exhibit. (Click the Exhibit button.)

You add a Panel control to CameraForm and name it transparentPanel. You must ensure that any underlying applications will be visible within the panel.

Which two actions should you take? (Each correct answer presents part of the solution. Choose two.)

- A. Set transparentPanel.BackColor to Red.
- B. Set transparentPanel.BackColor to Blue.
- C. Set transparentPanel.BackgroundImage to None.
- D. Set transparentPanel.Visible to False.
- E. Set CameraForm.Opacity to 0%.
- F. Set CameraForm.TransparencyKey to Red.
- G. Set CameraForm.TransparencyKey to Blue.

Answer: AF

5. You develop a Windows-based application that processes customer data from a database. Your customer service representatives will use the application to view or edit customer data.

One procedure in your application calls a function named ProcessCustomer. You want to add code to your application to record error information and performance data relating to ProcessCustomer. This information must be recorded in a log file named InfoLog.txt on the computer that executes the application. In addition, you want to be able to enable and disable logging without recompiling your application, and you want the option of logging error information only, or of logging both error information and performance data.

Which code segment should you use?

- A.

```
Dim oLog As New EventLog()
Dim oType As EventLogEntryType
Try
If Not EventLog.SourceExists("CustPerformance") Then
EventLog.CreateEventSource("CustPerformance", _ "Application")
End If
oLog.Source = "CustPerformance" oLog.Log = "Application"
oType = EventLogEntryType.Information
oLog.WriteEntry("Before ProcessCustomer() " _ & Now, oType)
ProcessCustomer()
If not EventLog.SourceExists("CustPerformance")
Then EventLog.CreateEventSource("CustPerformance", _ "Application")
End If
oLog.Source = "CustPerformance"
oLog.Log = "Application"
oType = EventLogEntryType.Information
oLog.WriteEntry("After ProcessCustomer() " _ & Now, oType)
Catch oEx As Exception
If Not EventLog.SourceExists("CustErrors")
Then EventLog.CreateEventSource("CustErrors", _ "Application")
End If
oLog.Source = "CustErrors"
oLog.Log = "Application"
oType = EventLogEntryType.Error
oLog.WriteEntry("Error details: " & _ oEx.Message, oType)
End Try
```
- B.

```
#Const MySwitch As Long
Dim IFH As Long IFH = FreeFile()
Open logFile For Append As #IFH
Try #If MySwitch = 4 Then Print #IFH,
"Before ProcessCustomer() " & Now
#End If ProcessCustomer()
#If MySwitch = 4 Then Print #IFH,
"After ProcessCustomer() " & Now #End
If Catch oEx As Exception
```

```

#If MySwitch = 1 Then Print #FH, oEx.Message
#End If Close #FH
End Try
C. Dim oWriter As New _ IO.StreamWriter(IO.File.Open(logFile, _ IO.FileMode.Append))
Dim oListener As New TextWriterTraceListener(oWriter) Dim
oSwitch As New TraceSwitch("MySwitch", _ "My TraceSwitch") Trace.Listeners.Add(oListener)
Try
Trace.WriteLineIf(oSwitch.TraceVerbose, _ "Before ProcessCustomer() " & Now)
ProcessCustomer()
Trace.WriteLineIf(oSwitch.TraceVerbose, _ "After ProcessCustomer() " & Now)
Catch oEx As Exception
Trace.WriteLineIf(oSwitch.TraceError, _ oEx.Message)
Finally oWriter.Close()
oWriter = Nothing End Try
D. Dim oWriter As New _ IO.StreamWriter(IO.File.Open(logFile, _ IO.FileMode.Append))
Dim oListener As New TextWriterTraceListener(oWriter)
Dim oSwitch As New TraceSwitch("MySwitch", _ "My TraceSwitch")
Debug.Listeners.Add(oListener)
Try
Debug.WriteLineIf(oSwitch.TraceVerbose, _ "Before ProcessCustomer() " & Now)
ProcessCustomer()
Debug.WriteLineIf(oSwitch.TraceVerbose, _ "After ProcessCustomer() " & Now)
Catch oEx As Exception
Debug.WriteLineIf(oSwitch.TraceError, _ oEx.Message)
Finally
oWriter.Close() oWriter = Nothing
End Try
Answer: C

```

6. You use Visual Studio .NET to create an application that will track vehicles leased by your company. You design object classes to model the vehicles by using the following code segment:

Your application defines the following code segment in the Load event handler for the form:

```

Dim newTruck As New Truck()
newTruck.Lease()

```

What happens when you try to run the application?

- A. A compilation error occurs.
- B. Only the code in the Truck.Lease method executes.
- C. Only the code in the Vehicle.Lease method executes.
- D. The code in the Vehicle.Lease and Truck.Lease methods executes.

Answer: D

7. You develop a kiosk application that enables users to register for an e-mail account in your domain. Your application contains two TextBox controls named textName and textEmail.

Your application is designed to supply the value of textEmail automatically. When a user enters a name in textName, an e-mail address is automatically assigned and entered in textEmail. The ReadOnly property of textEmail is set to True.

Your database will store each user's name. It can hold a maximum of 100 characters for each name. However, the database can hold a maximum of only 34 characters for each e-mail address. This limitation allows 14 characters for your domain, @proseware.com, and 20 additional characters for the user's name.

If a user enters a name longer than 20 characters, the resulting e-mail address will contain more characters than the database allows. You cannot make any changes to the database schema.

You enter the following code segment in the Leave event handler of textName:

```

textEmail.Text = textName.Replace(" ", ".") _ &

```

"@proseware.com"

Now you must ensure that the automatic e-mail address is no longer than 34 characters. You want to accomplish this goal by writing the minimum amount of code and without affecting other fields in the database.

What should you do?

- A. Set the `textName.Size` property to "1,20".
- B. Set `textEmail.Size` property to "1,34".
- C. Set `textName.AutoSize` property to `True`.
- D. Set `textEmail.AutoSize` property to `True`.
- E. Set `textName.MaxLength` property to 20.
- F. Set `textEmail.MaxLength` property to 34.
- G. Change the code in `textName_Leave` to ensure that only the first 20 characters of `textName.Text` are used.
- H. Use an `ErrorProvider` control to prompt for a revision if a user enters a name longer than 20 characters.

Answer: G

8. You use Visual Studio .NET to create an accounting application. Within this application, you are debugging a function named `CreditCardValidate`. This function contains several dozen variables and objects. One of the variables is named `bValidationStatus`.

You create a breakpoint at the top of `CreditCardValidate` and run the application within the Visual Studio .NET IDE. As you step through the code in `CreditCardValidate`, you need to view the contents of the `bValidationStatus` variable. However, you want to avoid seeing the contents of the other variables and objects in the function. You also need to complete the debugging process as quickly as possible.

What should you do?

- A. Open the Locals window.
- B. From the Command window, print the contents of `bValidationStatus` by using `bValidationStatus`.
- C. Open the QuickWatch dialog box for `bValidationStatus`.
- D. Add a watch expression for `bValidationStatus`.

Answer: D

9. You develop an application that invokes a procedure named `ProcessRecords`. You implement the `Trace` class to log any errors thrown by `ProcessRecords`. You direct the `Trace` output to a local log file named `ErrorLog.txt` by using the following code segment:

Now you need to add code to your `Finally` construct to write all output in the `ErrorLog.txt` file and then close the file.

You want to write the minimum amount of code to achieve this goal.

Which code segment should you use?

- A. `oWriter.Close()`
- B. `Trace.Flush() oWriter.Close()`
- C. `Trace.AutoFlush = True oWriter.Close()`
- D. `oWriter.AutoFlush = True oWriter.Close()`

Answer: A

10. You use Visual Studio .NET to create a Windows-based data management application named `MyApp`. You implement the following code segment:

You compile a debug version of the application and deploy it to a user's computer. The user reports errors, which are generated within the `CustomerUpdate` procedure.

You decide to enable logging of the error messages generated by `CustomerUpdate`. You want to use the minimum amount of administrative effort.

What should you do?

- A. Start the application with the following command line: `/TRACE MySwitch 1`.
- B. Start the application with the following command line: `/d:TRACE=True`.
- C. Start the application with the following command line: `/XML`.
- D. Create an environment variable on the user's computer. Name the variable `MySwitch` and assign it a value of 1.
- E. Edit your application's `.config` file to set the value of `MySwitch` to 1.

Answer: E

11. You are developing a Windows-based application that logs hours worked by your employees. Your design goals require you to maximize application performance and minimize impact on server resources.

You need to implement a SqlCommand object that will send a SQL INSERT action query to a database each time a user makes a new entry.

To create a function named LineltemInsert, you write the following code. (Line numbers are included for reference only.)

Your code must execute the SQL INSERT action query and verify the number of database records that are affected by the query.

Which code segment should you add on line 11?

A. cnn.Open()

```
Ret = cmd.ExecuteNonQuery()  
cnn.Close()  
Return Ret
```

B. cnn.Open()

```
Ret = cmd.ExecuteScalar()
```

```
cnn.Close()  
Return Ret
```

C. Dim reader As SqlDataReader

```
cnn.Open()  
reader = cmd.ExecuteReader()  
cnn.Close()  
Return reader.RecordsAffected
```

D. Dim reader As SqlDataReader

```
cnn.Open()  
reader = cmd.ExecuteReader()  
cnn.Close()  
Return reader.GetValue()
```

Answer: A

12. You use Visual Studio .NET to create an application that uses an assembly. The assembly will reside on the client computer when the application is installed. You must ensure that any future applications installed on the same computer can access the assembly.

Which two actions should you take? (Each correct answer presents part of the solution. Choose two.)

A. Use XCOPY to install the assembly in the global assembly cache.

B. Use XCOPY to install the assembly in the WindowsAssembly folder.

C. Create a strong name for the assembly.

D. Precompile the assembly by using the Native Image Generator (Ngen.exe).

E. Modify the application configuration file to include the assembly.

F. Use a deployment project to install the assembly in the global assembly cache.

G. Use a deployment project to install the assembly in the WindowsSystem32 folder.

Answer: CF

13. You use Visual Studio .NET to create an application that contains several Windows Forms. One of the Windows Forms uses the Trace class to write debugging information in a local log file.

You need to compile your application so it can be released to users. You want to achieve this goal with the minimum amount of administrative effort. For performance reasons, you will disable the trace functionality before you deliver the application. You might need to enable the Tracing code after deployment.

What should you do?

A. Set your Configuration Manager to Release , and then compile your application.

B. Use a TraceSwitch object that enables or disables your Trace code through the application's configuration file.

C. During deployment to users' computers, create a shortcut that starts your application with the /TRACE=False command line option.

D. During deployment to users' computers, create a shortcut that starts your application with the /d:TRACE=False

command line option.

Answer: B

14. You develop a Windows-based order entry application. The application uses a DataSet object named customerDataSet to manage client data while users edit and update customer records. The DataSet object contains a DataTable object named creditAuthorizationDataTable. This object contains a field named MaxCredit, which specifies the credit limit for each customer.

Customer credit limits cannot exceed \$20,000. Therefore, your application must verify that users do not enter a larger amount in MaxCredit. If a user does so, the user must be notified, and the error must be corrected, before any changes are stored permanently in the database.

You create a procedure named OnRowChanged. This procedure sets the DataTable.Row.RowError property for each row that includes an incorrect credit limit. OnRowChanged will run each time a user changes data in a row.

OnRowChanged contains the following code segment:

Before updating the database, your application must identify and correct all rows that are marked as having an error.

Which code segment should you use?

A. For Each myRow In _ creditAuthorization

```
    DataTable.GetErrors()
```

```
    MessageBox.Show("CustID = " & _
```

```
myRow("CustID").ToString() & " " & _
```

```
    "Error = " & myRow.RowError)
```

```
Next
```

B. For Each myRow In _

```
    CreditAuthorization
```

```
    DataTable.HasErrors()
```

```
    MessageBox.Show("CustID = " & _
```

```
myRow("CustID").ToString() & " " & _
```

```
    "Error = " & myRow.RowError)
```

```
Next
```

C. Dim ww As DataView = New DataView(_

```
customerDataSet.Tables("CreditAuthorization"), _
```

```
DataViewRowState.ModifiedCurrent) MessageBox.Show("CustID = " & ww("CustID") _
```

```
.ToString() & " Error"
```

D. Dim ww As DataView = New DataView(_

```
customerDataSet.Tables("CreditAuthorization"), _
```

```
DataViewRowState.ModifiedOriginal)
```

```
MessageBox.Show("CustID = " & ww("CustID") _
```

```
.ToString() & " Error"
```

Answer: A

15. Your development team is creating an accounting application for your company. Your team uses Visual Studio .NET to write code, and it stores new code immediately by using Microsoft Visual SourceSafe.

You develop a component that uses classes created by another developer on your team. You need to perform unit testing on your component to ensure that it functions properly. However, the classes used by your component are checked out by another developer and are incomplete.

You need to perform unit testing as soon as possible. You must not cause any loss of time or resources to your development team.

What should you do?

A. Get the latest version of the classes used by your component. Write new code in the classes to ensure that they behave in the expected manner. Perform unit testing of the component against your revised version of the classes.

B. Get the latest version of the classes used by your component. Begin your unit test. When you encounter areas of the called classes that are not functioning properly, comment out that portion of the code in your component.

Complete the unit test when the classes are checked in.

C. Create classes that simulate the classes used by your component. Ensure that the simulated classes accept and

return parameters that match those of the current version of the classes.

D. Wait until the classes used by your component are completed. Perform your unit test with the completed classes.

Answer: C

16. You use Visual Studio .NET to create a Windows-based application. On the main application form, you create a TextBox control named textConnectionString. Users can enter a database connection string in this box to access customized data from any database in your company.

You also create a Help file to assist users in creating connection strings. The Help file will reside on your company intranet.

Your application must load the Help file in a new browser window when the user presses the F1 key, but only if textConnectionString has focus. You must create this functionality by using the minimum amount of code.

In which event should you write the code to display the Help file?

- A. textConnectionString_KeyPress
- B. textConnectionString_KeyDown
- C. textConnectionString_KeyUp
- D. textConnectionString_GiveFeedback
- E. textConnectionString_HelpRequested

Answer: E

17. You develop a Windows-based application that accesses a Microsoft SQL Server database. The application includes a form named CustomerForm, which contains a Button control named sortButton. The database includes a table named Customers.

Data from Customers will be displayed on CustomerForm by means of a DataGrid control named DataGrid1. The following code segment is used to fill DataGrid1:

The primary key for Customers is the CustomerID column.

You must ensure that the data will be displayed in ascending order by primary key when the user selects sortButton.

What should you do?

- A. Set the Sort property of the DataView object to an empty string.
- B. Set the ApplyDefaultSort property of the DataView object to False.
- C. Include an ORDER BY clause in the SELECT statement when you create the DataAdapter object.
- D. Set the RowFilter property of the DataView object to CustomerID.

Answer: A

18. You develop an application that will be sold commercially. You create a Visual Studio .NET setup project to distribute the application. You must ensure that each user accepts your license agreement before installation occurs.

What should you do?

- A. Add a launch condition to your setup project. Add your license agreement to the Message property of the launch condition.
- B. Open the user interface designer for your setup project. Select the Welcome dialog box from the Start object and add your license agreement to the CopyrightWarning property.
- C. Save your license agreement in Rich Text Format and add the file to your setup project. Open the property pages for the setup project and set the Certificate file to the name of your Rich Text file.
- D. Save your license agreement in Rich Text Format and add the file to your setup project. Open the user interface designer for the setup project. From the Start object, select the License Agreement dialog box and set the LicenseFile property to the name of your Rich Text file.

Answer: D

19. You use Visual Studio .NET to create an application that tracks support incidents for your technical support department. You implement the Trace class to write information about run-time errors in a local log file. You also implement a TraceSwitch object named MySwitch, which can turn Trace logging on and off as needed. To maximize application performance, you ensure that MySwitch is disabled by default.

You set your Configuration Manager to Release. You compile the application and deploy it to a shared folder on your company intranet. Fifty users access the application from a shortcut on their desktops.

One user receives error messages while running the application. You decide to enable verbose trace logging within the application for that user. You must ensure that you do not affect application performance for the other users. Which action or actions should you take? (Choose all that apply.)

A. Set your Configuration Manager to Debug. Compile your application and deploy it locally on the user's computer. Create a new shortcut on the user's desktop to access the local copy of the application.

B. Copy the deployed version of the application from the shared folder.

Deploy it locally on the user's computer. Create a new desktop shortcut on the user's desktop to access the local copy of the application.

C. Edit the .config file for the application on the user's computer to enable MySwitch with a value of 4.

D. Edit the .config file for the application on the shared folder to enable MySwitch with a value of 4.

E. Start the application with the /d:TRACE=TRUE command line option.

F. Start the application with the /TRACE MySwitch 4 command line option.

Answer: BC

20. You use Visual Studio .NET to create an application that will process telephone orders.

Your application uses an XML Web service for credit card verification. It also uses several Microsoft SQL Server stored procedures. The XML Web service contacts a third-party credit card processing service to authorize credit card charges. You have access to the source code for the XML Web service and the stored procedures, which were created by your company and are used by several other applications.

Before you deliver your application for comprehensive testing, you need to perform unit testing to ensure that the application performs as expected.

Which three actions should you include in your unit test plan? (Each correct answer presents part of the solution. Choose three.)

A. Use the T-SQL Debugger to step through each stored procedure used by your application and ensure that each one is functioning properly.

B. Add the source code for the XML Web service to your Visual Studio .NET solution. Use the Visual Studio debugger to step through calls to this code.

C. Step through the source code for your application and ensure that it is functioning properly given various application parameters.

D. Examine and validate the input parameters, output parameters, and results from each call to the stored procedures.

E. Examine and validate the values sent to and received from the XML Web service.

F. Contact the third-party credit card processing service to verify that credit card charges issued by your application are being delivered properly by the XML Web service.

Answer: CDE

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