

**Exam : Microsoft 70-548(VB)**

**Title : PRO:Design & Develop  
Wdws-Based Appl by Using  
MS.NET Frmwk**

**Version : Demo**



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1. You create Microsoft Windows-based applications. You create a banking application that will be used by the account managers of the bank.

You identify a method to simulate the deposit functionality of a savings account. The method will calculate the final balance when monthly deposit, number of months, and quarterly rate are given. The application requirements state that the following criteria must be used to calculate the balance amount:

- Apply the quarterly interest rate to the balance amount of the account every three months.
- Apply the quarterly interest rate before the monthly deposit is calculated for the third month.

You translate the outlined specification into pseudo code. You write the following lines of code. (Line numbers are included for reference only.)

Method

Public Shared Function SimulateSavings() As Decimal

Input parameters

Dim months As Integer

Dim monthlyPayment As Decimal

Dim quarterlyRate As Decimal

Pseudo code

01 Declare balance variable, initialize it to zero

02

03 Return balance

You need to insert the appropriate code in line 02.

Which code segment should you insert?

- A. 01 Declare integer variable, x  
02 For x=1 to months/3  
2.1 balance = balance + 3 \* monthlyPayment  
2.2 balance = (1 + quarterlyRate) \* balance
- B. 01 Declare integer variable, x  
02 For x=1 to months/3  
2.1 balance = balance + 2 \* monthlyPayment  
2.2 balance = (1 + quarterlyRate) \* balance  
2.3 balance = balance + monthlyPayment
- C. 01 Declare integer variable, x  
02 For x=1 to months  
2.1 balance = balance + monthlyPayment

2.2 if x Mod 3 is 0 then balance = (1 + quarterlyRate) \* balance

D. 01 Declare integer variable, x

02 For x=1 to months

2.1 if x Mod 3 is 0 then balance = (1 + quarterlyRate) \* balance

2.2 balance = balance + monthlyPayment

**Answer: D**

2. You create Microsoft Windows-based applications. You are creating a component that will be used by several client applications.

The component contains the following code segment. (Line numbers are included for reference only.)

```
01 Namespace MyComponent
02     Public Class Account
03         Private mAccountNo As String
04         Private mBalance As Decimal
05         Public Sub New(ByVal AcctNo As String)
06             ...
07         End Sub
08         Public Sub Withdraw(ByVal Amount As Decimal)
09             ...
10         End Sub
11         Public Sub Deposit(ByVal Amount As Decimal)
12             ...
13         End Sub
14     End Class
15     Public Class SavingsAccount
16         Inherits Account
17         Public Sub New(ByVal AcctNo As String)
18             MyBase.New(AcctNo)
19         End Sub
```

```
20 End Sub
21 Public Sub ApplyInterestRate(ByVal Amount As Decimal)
22     ...
23 End Sub
24 End Class
25 End Namespace
```

You need to redesign the Account class and the SavingsAccount class to meet the following requirements:

- Developers must not be able to instantiate the Account class from client applications.
- Developers must not be able to extend the functionality of the SavingsAccount class.
- Developers must be able to instantiate the SavingsAccount class from client applications.

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

- A. Implement only Private constructors for the Account class.
- B. Implement only Private constructors for the SavingsAccount class.
- C. Implement only Friend constructors for the Account class.
- D. Implement the SavingsAccount class as a MustInherit public class.
- E. Implement the SavingsAccount class as a concrete non-inheritable class.

**Answer:** C AND E

3. You create Microsoft Windows-based applications. You are designing an inventory management solution for a warehouse. The solution must address the following requirements:

- Access inventory data in a Microsoft SQL Server 2005 database.
- Generate XML documents representing purchase orders based on an XML schema provided by a trading partner.
- Use the minimum amount of code possible.
- Use the minimum amount of I/O operations possible.

You need to develop the data handling capabilities of the solution to meet the requirements.

Which three data handling mechanisms should you select? (Each correct answer presents part of the solution. Choose three.)

- A. Use an XmlReader object to retrieve inventory data from the database and populate a DataSet object.
- B. Use a DataAdapter object to retrieve inventory data from the database and populate a DataSet object.
- C. Use methods from the DataSet class to generate a new XML file that contains data to be used to generate a purchase order.
- D. Use methods from the DataSet class to generate a new XmlDataDocument object that contains data to be used to generate a purchase order.
- E. Use an XslCompiledTransform object to generate the purchase order XML file.

F. Use an XmlWriter object to generate the purchase order XML file.

**Answer:** B AND D AND E

4. You create Microsoft Windows-based applications. You create an application that accesses data on a Microsoft SQL Server 2005 database. You write the following code segment. (Line numbers are included for reference only.)

```
01 Private Sub LoadData()  
02  
03     cn.Open()  
04     daProducts.Fill(ds)  
05     daCategories.Fill(ds)  
06     cn.Close()  
07  
08 End Sub
```

The cn variable points to a SqlConnection object. The SqlConnection object will be opened almost every time this code segment executes.

You need to complete this code segment to ensure that the application continues to run even if the SqlConnection object is open. You also need to ensure that the performance remains unaffected.

What should you do?

A. Add a Try block on line 02 along with a matching Catch block beginning on line 07 to handle the possible exception.

B. Add a Try block on line 02 along with a matching Finally block beginning on line 07 to handle the possible exception.

C. Replace line 03 with the following code.

```
If Not (cn.State = ConnectionState.Open) Then  
    cn.Open()  
End If
```

D. Replace line 03 with the following code.

```
If Not (cn.State = ConnectionState.Closed) Then  
    cn.Open()  
End If
```

**Answer:** C

5. You create Microsoft Windows-based applications. You are creating a method. Your applications will call the method multiple times. You write the following lines of code for the method.

```

01 Public Function BuildSQL(ByVal strFields As String, ByVal strTable As String, ByVal strFilterId As String)
As String
02     Dim sqlInstruction As String = "SELECT "
03     sqlInstruction += strFields
04     sqlInstruction += " FROM "
05     sqlInstruction += strTable
06     sqlInstruction += " WHERE id="
07     sqlInstruction += strFilterid
08     Return sqlInstruction
09 End Function

```

The method generates performance issues.

You need to minimize the performance issues that the multiple string concatenations generate.

What should you do?

- A. Use a single complex string concatenation.
- B. Use an array of strings.
- C. Use an ArrayList object.
- D. Use a StringBuilder object.

**Answer: D**

6. You create Microsoft Windows-based applications. You are creating an application that will connect to a Microsoft SQL Server 2005 database. You write the following code segment for a method contained in the application. (Line numbers are included for reference only.)

```

01 Private cn As SqlConnection
02 Private Function getConn() As Object
03     cn = New SqlConnection("data source = localhost;initial Catalog = Accounting;integrated security = true")
04     Return cn
05 End Function

```

In the production environment, the database will be stored by a server on the network.

You need to eliminate the requirement to recompile the application when you deploy it to the production environment. You want to achieve this by using minimum amount of programming effort.

What should you do?

- A. Create an application configuration file to store the connection string. Change the code to read the connection string from the configuration file.
- B. Create an XML file in the application folder to store the connection string. Change the code to use an

XMLReader object to connect to a file stream and read the connection string.

C. Create a component that returns the connection string. Change the code to use the component to get the connection string.

D. Create a text file to store the connection string. Change the code to use a TextReader object to connect to a file stream and read the connection string.

**Answer: A**

7. You create Microsoft Windows-based applications. You are reviewing code for an application that is created for a bank. You find that a Microsoft Windows Form includes the following code segment.

```
Partial Public Class ATMDeposit
    Inherits Form

    Private account As BankAccount

    Public Sub New()
        InitializeComponent()
    End Sub

    Private Sub New_Load(ByVal sender As Object, ByVal e As EventArgs)
        account = New BankAccount()
    End Sub

    Private Sub cmdDeposit_Click(ByVal sender As Object, ByVal e As EventArgs)
        account.Deposit(Decimal.Parse(txtAmount.Text))
    End Sub
End Class
```

You analyze the code segment and find that the form handles no other events.

You need to suggest changes to improve reliability.

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

A. Add an event handler for the TextChanged event for the txtAmount textbox to validate the data typed by the user.

B. Add an event handler for the Validating event for the txtAmount textbox to validate the data typed by the user.

C. Add a Try...Catch block to the cmdDeposit\_Click method.

D. Add a Try...Catch block to the ATMDeposit\_Load method.

E. Add a Try...Catch block to the ATMDeposit constructor.

**Answer: B AND C**

8. You create Microsoft Windows-based applications.

You receive the following code segment to review. (Line numbers are included for reference only.)

```

01 Partial Public Class frmReceivables
02     Inherits Form
03     Private ds As DataSet
04     Public Sub New()
05         InitializeComponent()
06     End Sub
07     Private Sub New(ByVal sender As Object, ByVal e As EventArgs)
08         Dim cn As SqlConnection = New SqlConnection(strConnectionString)
09         Dim daInvoices As SqlDataAdapter = New SqlDataAdapter("SELECT * FROM Invoices", cn)
10         Dim daCustomers As SqlDataAdapter = New SqlDataAdapter("SELECT * FROM Customers", cn)
11         ds = New DataSet("Receivables")
12         daInvoices.Fill(ds)
13         daCustomers.Fill(ds)
14     End Sub
15 End Class

```

The strConnectionString variable is pre-populated from the application configuration file. Query statements will remain unchanged throughout the life cycle of the application. Connection pooling is not being used. This code segment accesses a Microsoft SQL Server 2000 database. The ds dataset is bound to a data grid view so that users can view and update data in the database. The code currently compiles correctly and works as intended.

You need to enhance performance and reliability for this code.

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

- A. Use an ODBC DSN instead of a connection string.
- B. Use OleDbDataAdapter objects instead of SqlDataAdapter objects to populate the dataset.
- C. Add a line of code before line 12 to open the database connection.
- D. Add a Try...Catch block and close the connection in the catch block.
- E. Add a Try...Catch...Finally block and close the connection in the Finally block.

**Answer:** C AND E

9. You create Microsoft Windows-based applications. You review code for an application that is developed for a bank. You need to test a method named Deposit in one of the application components. The following code segment represents the Deposit method. (Line numbers are included for reference only.)

```

01 Public Sub Deposit(ByVal amount As Decimal)
03     If Not (amount > 0) Then
04         Throw New Exception("Invalid deposit amountNot ")
05     Else
06         Me.balance += amount
07     End If
08 End Sub

```

You use the Microsoft Visual Studio 2005 test feature to automatically generate the following unit test. (Line numbers are included for reference only.)

```

01 <TestMethod> _
02 Public Sub DepositTest()
03     Dim target As BankAccount = New BankAccount() 'balance will be ZERO
04     Dim amount As Decimal = 100
05     target.Deposit(amount)
06     Assert.Inconclusive("A method that does not return a value cannot be verified.")
07 End Sub

```

You need to change the test method to return a conclusive result.

Which line of code should you use to replace the code on line 06?

- A. Assert.AreEqual(100,target.Balance)
- B. Assert.IsTrue(target.Balance <> 100)
- C. Debug.Assert(target.Balance = 100,passed)
- D. Debug.Assert(target.Balance = 100,failed)

**Answer: A**

10. You create Microsoft Windows-based applications. You are testing a component named BankAccount. You write the following code segment for the BankAccount component. (Line numbers are included for reference only.)

```

01 Public Class BankAccount
02     Private _balance As Decimal
03     Public Property Balance() As Decimal
04         Get
05             Return Me._balance
06         End Get
07         Set(ByVal value As Decimal)
08             Me._balance = value
09         End Set
10     End Property
11     Public Sub Withdraw(ByVal amount As Decimal)
12         If Not (amount > 0) Then
13             Throw New Exception("Invalid withdraw amount!")
14         ElseIf (amount > Me.balance) Then
15             Throw New Exception("Insufficient balance")
16         Else
17             Me.balance = (Me.balance - amount)
18         End If
19     End Sub
20     Public Sub Deposit(ByVal amount As Decimal)
21         If Not (amount > 0) Then
22             Throw New Exception("Invalid deposit amount!")
23         Else
24             Me.balance = (Me.balance + amount)
25         End If
26     End Sub
27 End Class

```

The test project executes a valid withdraw operation and a valid deposit operation. It also verifies the account balance.

Your companys check-in policy requires that the primary code path is tested before check in. Full testing will be completed later.

You need to establish the lowest acceptable code coverage metric.

What should you test?

- A. Test all methods.
- B. Do not test exceptions. Test all other methods.
- C. Test all code, including variable declarations.
- D. Do not test accessor methods. Test all other methods and exceptions.

**Answer: B**

11. You create Microsoft Windows-based applications. You are designing a unit test class to test the functionality of a component named Calculator. The Calculator must function as a standard nonscientific calculator.

A developer on your team writes the following lines of code for the test class. (Line numbers are included for reference only.)

```
01 <TestClass> _
02 Public Class CalculatorTest
03     Private testContextInstance As TestContext
04     Public Property TestContext() As TestContext
05         Get
06             Return testContextInstance
07         End Get
08         Set(ByVal value As TestContext)
09             testContextInstance = value
10         End Set
```

```

11 End Property
12 <TestMethod> _
13 Public Sub AddTest()
14 Dim target As Calculator = New Calculator
15 Assert.AreEqual(target.Add(1, 1), 2)
16 target.Dispose()
17 End Sub
18 <TestMethod> _
19 Public Sub SubtractTest()
20 Dim target As Calculator = New Calculator
21 Assert.AreEqual(target.Subtract(10, 2), 8)
22 target.Dispose()
23 End Sub
24 End Class
    
```

You need to ensure that appropriate assertions are tested.

Which additional assertion should you test?

- A. AreSame
- B. IsInstanceOfType
- C. IsNotNull
- D. Inconclusive

**Answer: C**

12. You create Microsoft Windows-based applications. You are designing a unit test for a form in an application. You write the following code segment. (Line numbers are included for reference only.)

```

01 Public Class frmCalculation
02 Inherits Form
03 Public Sub New()
04 MyBase.New()
05 InitializeComponent()
06 End Sub
07 Private Sub cmdFib_Click(ByVal sender As Object, ByVal e As EventArgs)
    
```

```

08     lblResult.Text = Fibonacci(Integer.Parse(txtNumber.Text)).ToString
09     End Sub
10     Private Sub cmdFac_Click(ByVal sender As Object, ByVal e As EventArgs)
11         lblResult.Text = Factorial(Integer.Parse(txtNumber.Text)).ToString
12     End Sub
13     Private Function Fibonacci(ByVal number As Integer) As Integer
14         If (number < 3) Then
15             Return 1
16         Else
17             Return (Fibonacci((number - 1)) + Fibonacci((number - 2)))
18         End If
19     End Function
20     Private Function Factorial(ByVal number As Integer) As Integer
21         Dim total As Integer = 1
22         Dim x As Integer = number
23         Do While (x > 1)
24             total = (total * x)
25             x = (x - 1)
26         Loop
27         Return total
28     End Function
29 End Class

```

You need to identify the methods that must be included for unit testing.

Which methods should you choose?

- A. frmCalculation, cmdFib\_Click, cmdFac\_Click, Fibonacci, and Factorial
- B. frmCalculation, cmd\_Fib\_Click, and cmdFac\_Click
- C. cmdFib\_Click, cmdFac\_Click, Fibonacci, and Factorial
- D. Fibonacci and Factorial

**Answer: D**

13. You create Microsoft Windows-based applications. You are designing the integration test for an application. You write the following lines of code. (Line numbers are included for reference only.)

```
01 Private Sub cmdCompare_Click(ByVal sender As Object, ByVal e As EventArgs)
02     Dim travelCost As Decimal
03     Dim flightFare As Decimal
04     Dim carRental As Decimal
05     Dim hotelPrice As Decimal
06     flightFare = wsFlyHigh.GetBestFare(txtOrigin.Text, txtDest.Text, datDateOut, datDateBack)
07     cmdGetRentalPrice.Parameters.Add("@DAYS", SqlDbType.Int)
08     cmdGetRentalPrice.Parameters(0).Value = Integer.Parse(txtDays.Text)
09     carRental = cmdGetRentalPrice.ExecuteScalar
10     hotelPrice = bigDeal.GetHotelPrice(Integer.Parse(txtDays.Text))
11     travelCost = (flightFare + (carRental + hotelPrice))
12     txtTravelCost.Text = travelCost.ToString("C")
13 End Sub
```

You analyze the code and discover the following features:

- wsFlyHigh is a Web service that is hosted on a partners extranet.
- cmdGetRentalPrice runs a stored procedure on a corporate database server.
- bigDeal is a COM component.

You need to create a report that lists the parts of the code to be considered during integration testing.

Which lines of code should you add to your report?

- A. 06, 07, 08, 09, and 10
- B. 06, 09, and 10
- C. 06 and 10
- D. 10

**Answer: B**

14. You create Microsoft Windows-based applications.

You create an application that requires the user to be authenticated by a domain controller.

The application consumes Web services.

During acceptance testing, you detect that for some users a security exception is thrown while calling a method. The users should have access to the method. The method contains the following lines of code.

```
<PrincipalPermission(SecurityAction.Demand, Role:="Manager")> _  
Public Sub ApproveOrder(ByVal ordered As Integer)  
...  
End Sub
```

You need to resolve this bug.

What should you do?

- A. Ask an administrator to enable Windows Integrated authentication in IIS.
- B. Modify the code access security machine policies for the computer running the code such that the code is permitted to execute.
- C. Change the SecurityAction from Demand to Deny.
- D. Ask an administrator to add the users to the YourDomain\Manager group.

**Answer: D**

15. You create Microsoft Windows-based applications. You need to evaluate the design concept of an application.

The application must meet the following requirements:

The application must meet the following requirements:

- The application relies on the operating system for authentication.
- The application minimizes the amount of data sent over the network when connecting to the database.
- The application exposes data access code so that the future Web-based and mobile applications can reuse them.
- The application permits users to view and edit data contained in tables from a Microsoft SQL Server 2005 database.
- The application controls access to the SQL Server 2005 database at the table level.

The design contains the following elements:

- The SQL Server 2005 database uses the Windows Authentication mode.
- A database schema that grants rights to the users at the table level.
- A stored procedure in Transact-SQL that accesses the necessary data required by the application.
- A Web service that uses a pre-defined credential to access the database and run the stored procedures.
- A Microsoft Windows-based application that impersonates the logged-on user and calls the Web service to retrieve and update the data.

You need to evaluate the design and recommend appropriately.

What should you recommend?

- A. The design meets all the requirements.

- B. Change the Windows-based application to use Windows Authentication.
- C. Change the Web service to impersonate the caller.
- D. Change the database schema to use stored procedures.

**Answer: C**



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