

Exam : Microsoft 70-547

**Title : PRO:Design and Develop
Web-Basd Apps by Using
MS.NET Frmwk**

Version : Demo



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1. You create Web-based applications. You are creating an Internet banking application. The application will be used by bank account holders.

You are creating a method to withdraw money from an account. The method must change the account balance according to one of the following rules:

·If the amount that is being withdrawn is less than or equal to the account balance, then subtract the amount from the balance.

·If the amount that is being withdrawn is greater than the account balance by up to 500 dollars, then subtract the amount and a 35-dollar fee from the balance.

·If the amount that is being withdrawn is greater than the account balance by more than 500 dollars, then generate an error.

You are translating the specification given here into pseudo code. You start by writing the following code.

Method

```
public void Withdraw
```

Input parameters

```
decimal amount
```

Class field

```
decimal balance
```

Pseudo code

```
//your pseudo code
```

You need to insert the correct pseudo code.

Which code segment should you insert?

A. If amount < balance then balance - = amount

```
If amount < balance + 500 then balance = balance - (amount + 35)
```

```
If amount > balance + 500 then throw exception
```

B. If amount <= balance then balance - = amount

```
If amount <= balance + 500 then balance = balance - (amount + 35)
```

```
If amount > balance + 500 then throw exception
```

C. If amount < balance then balance - = amount

```
Else If amount < balance + 500 then balance = balance - (amount + 35)
```

```
Else throw exception
```

D. If amount <= balance then balance - = amount

```
Else If amount <= balance + 500 then balance = balance - (amount + 35)
```

```
Else throw exception
```

Answer: D

2. You create Web-based client applications. You deploy an application on the company extranet. The sales team requires notification when an order total exceeds the company's approval levels.

The application requires you to send an e-mail to the sales manager to receive approval for any order over \$100,000. You must meet the following constraints to achieve this requirement:

- Modifications can be done only to the Web.config file
- Limited programmer resources
- System can be configured as needed at multiple sites

The design team plans to use the SimpleMailWebEventProvider class of the health monitoring APIs to send the e-mail.

You need to evaluate whether the design meets the requirement.

What should you recommend?

- A. The design meets the requirement.
- B. The design does not meet the requirement. Though there is a built-in event handler to process all errors, you need to write a custom provider to send e-mail to the sales manager.
- C. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You can use a built-in provider to send e-mail to the sales manager.
- D. The design does not meet the requirement. You need to write a custom event handler to respond to an application specific trigger. You need a custom provider to write e-mail to the sales manager.

Answer: C

3. You create Web-based client applications. You create a component named Orders for a company named Northwind Traders.

This component is used to retrieve and update data in the Orders table of the company's database. The schema of the Orders table is as shown in the following Exhibit. (Click the Exhibit button.)

Orders	
	OrderID
	CustomerID
	EmployeeID
	OrderDate
	RequiredDate
	ShippedDate
	ShipVia
	Freight
	ShipName
	ShipAddress
	ShipCity
	ShipRegion
	ShipPostalCode
	ShipCountry

Member Type
Methods
public static Order[] GetOrdersForCustomer(int CustomerID)
public bool OrderHasShipped(int EmployeeID)
public bool DeleteOrder(int EmployeeID)
public Order GetOrdersForCustomer(int EmployeeID)
public bool UpdateOrderDate(dateTime NewRequiredDate)
public Order GetOrdersForEmployee(int CustomerID)
public static Order[] UnshippedOrders ()
Property
public Order UnshippedOrders(int EmployeeID)
public bool UpdateOrderDate(int EmployeeID, dateTime NewRequiredDate)
public bool DeleteOrder()
public bool OrderHasShipped
public static Order[] GetOrdersForEmployee(int EmployeeID)
public Orders(int OrderID)

4. You create Web-based client applications. You create a class library that is named Fabrikam.dll. Ten applications will use Fabrikam.dll.

Fabrikam.dll contains two classes that are named Order and OrderDetail. The class library must meet the following requirements:

- Both the classes in Fabrikam.dll are available to client applications of Fabrikam.dll.
- Each instance of the OrderDetail class is associated with an instance of the Order class.
- Code segments in client applications do not instantiate the OrderDetail class.
- The OrderDetail class contains no static members.

You need to design the interface for the OrderDetail class.

Which code segment should you choose?

A. public sealed class OrderDetail {
 internal OrderDetail(){
 ...
 }
}

B. internal sealed class OrderDetail {
 internal OrderDetail() {
 ...
 }
}

C. public sealed class OrderDetail {
 public OrderDetail() {
 ...
 }
}

D. public sealed class OrderDetail {
 private OrderDetail() {
 ...
 }
}

Answer: A

5. You create Web-based client applications. You are creating a class named Product. The Product class will be used by a Web-based application to retrieve and modify product information.

When you create an instance of the Product class, you retrieve the current information from the Products table. The Product class contains a static member named CreateNewProduct. The CreateNewProduct method is used to add a new product to the database and return the primary key. The Products table contains the following fields:

- ProductID (primary key)
- ProductName
- Description
- CategoryID
- CurrentPrice

You need to create the constructor for the Product class.

Which code segment should you use?

- A. `public Product(int ProductID, string ProductName, string Description, int CategoryID, decimal CurrentPrice) {
...}`
- B. `public Product(int ProductID, string ProductName) {
...
}`
- C. `public Product() {
...
}`
- D. `public Product(int ProductID)?{
...
}`

Answer: D

6. You create components for Web-based client applications. You are creating a BankAccount class.

The BankAccount class contains an AccountNumber property and a CreateAccount method. The CreateAccount method is used to create a new account. The method generates a unique random value for the actNumber field.

You need to ensure that the BankAccount class is extendable, and that it serves as the base class for other derived classes. You also need to ensure that each derived class can have its own guidelines to generate account numbers in the CreateAccount method.

Which code segment should you use?

- A. `Public Class BankAccount
Protected actNumber As Long
Public ReadOnly Property AccountNumber() As Long
Get
Return actNumber
End Get
End Property
Public Overridable Function CreateAccount() As BankAccount
...
End Function
End Class`
- B. `Public Class BankAccount`

```
Private actNumber As Long
Public ReadOnly Property AccountNumber() As Long
    Get
        Return actNumber
    End Get
End Property
Public Overridable Function CreateAccount() As BankAccount
...
End Function
End Class
```

C. Public Class BankAccount

```
Protected actNumber As Long
Public ReadOnly Property AccountNumber() As Long
    Get
        Return actNumber
    End Get
End Property
Public Function CreateAccount() As BankAccount
...
End Function
End Class
```

D. Public Class BankAccount

```
Private actNumber As Long
Public ReadOnly Property AccountNumber() As Long
    Get
        Return actNumber
    End Get
End Property
Public Function CreateAccount() As BankAccount
...
End Function
End Class
```

Answer: A

7. You create Web-based client applications. You are creating a class library that will be used by an e-commerce Web-based application. The library has an abstract class that is named Product. The Product

class serves as a base class for the other classes and provides a default ProductID property.

Each class other than the base class represents a type of product that is sold by your company. There is a ProductID property and a GetProductDetails procedure for each product type.

You need to ensure that the application meets the following requirements:

- The shopping cart in your Web-based application processes all product types in the same manner.
- Each class retrieves its data from a different source.
- The GetProductDetails procedure retrieves the data from the appropriate source for the product type.

What should you include in the Product class?

- A. a MustOverride ProductID property and an overridable GetProductDetails procedure
- B. an overridable ProductID property and an overridable GetProductDetails procedure
- C. an overridable ProductID property and a MustOverride GetProductDetails procedure
- D. a MustOverride ProductID property and a MustOverride GetProductDetails procedure

Answer: C

8. You create Web-based applications. You create a loan application form.

The loan application form is used to calculate the monthly payment of loans. The monthly payment is based on the loan amount, rate, and number of months. The form contains four text boxes and a button. There are no other controls in the form. The application event handler has the following lines of code. (Line numbers are included for reference only.)

```

01 Protected Sub GetPayment(ByVal sender As Object, ByVal e As EventArgs)
02 Try
03     Dim rate As Decimal = Decimal.Parse(txtRate.Text)
04     Dim loanAmount As Decimal = Decimal.Parse(txtLoan.Text)
05     Dim period As Integer = Integer.Parse(txtPeriod.Text)
06     Dim monthlyPayment As Decimal = CalcPayment(rate, loanAmount, period)
07     txtPayment.Text = monthlyPayment.ToString("C")
08 Catch ex As OverflowException
09     ...
10 Catch ex As InvalidCastException
11     ...
12 Catch ex As Exception
13     ...
14 End Try
15 End Sub

```

You must prevent exceptions whenever possible to meet the application requirements.

You need to evaluate the current exception handling mechanism.

What should you conclude?

- A. The current exception handling mechanism meets the requirements. Nothing needs to be changed.
- B. The current exception handling mechanism does not meet the requirements. A required field validator and a range validator control must be added to validate each text box before the button is clicked.
- C. The current exception handling mechanism does not meet the requirements. A required field validator control must be added to validate each text box before the button is clicked.
- D. The current exception handling mechanism does not meet the requirements. A regular expression validator control must be added to validate each text box before the button is clicked.

Answer: B

9. You create Web-based client applications. You are reviewing a Web application page that populates the list of all employees for your company.

The following code segment loads the list of employees from a database.

```

Private Shared Function LoadEmployeesFromDatabase() _
    As List(Of CEmployee)?
    Dim factory As DbProviderFactory = _
        DbProviderFactories.GetFactory("System.Data.SqlClient")
    Dim lstEmployees As List(Of CEmployee) = Nothing
    ' Extract the connection string from configuration data
    Dim connString As ConnectionStringSettings = _
        ConfigurationManager.ConnectionStrings("EmployeeStore")
    ' Create the connection and open it
    Dim conn As DbConnection = factory.CreateConnection()
    conn.ConnectionString = connString.ConnectionString
    conn.Open()
    ' Get the employees. The connection to the database is?
    ' given as parameter
    lstEmployees = GetEmployees(conn)
    ' Close the connection to the employee data store
    conn.Close()
    Return lstEmployees
End Function
    
```

You analyze the code segment. You find that the database connection fails to close properly when the GetEmployees method throws an exception.

You need to recommend a change in the code segment to ensure that every possible code path closes the database connection.

Which code segment should you recommend?

A. ' Create the connection and open it

```

Using conn As DbConnection = factory.CreateConnection()
    conn.ConnectionString = connString.ConnectionString
    conn.Open()
    ' Get the employees. The connection to the database
    ' is given as parameter
    lstEmployees = GetEmployees(conn)
    
```

End Using

B. ' Create the connection and open it

```
Dim conn As DbConnection = factory.CreateConnection()
```

```
conn.ConnectionString = connString.ConnectionString
```

```
conn.Open()
```

```
' Get the employees. The connection to the database is
```

```
' given as parameter
```

```
IstEmployees = GetEmployees(conn)
```

```
If IstEmployees Is Nothing Then
```

```
    conn.Dispose()
```

```
Else
```

```
    conn.Close()
```

```
End If
```

C. Dim coll As HandleCollector = _

```
    New HandleCollector("Connections", 0, 5)
```

```
' Create the connection and open it
```

```
Dim conn As DbConnection = factory.CreateConnection()
```

```
conn.ConnectionString = connString.ConnectionString
```

```
conn.Open()
```

```
coll.Add()
```

```
' Get the employees. The connection to the database is
```

```
' given as parameter
```

```
IstEmployees = GetEmployees(conn)
```

```
' Close the connection to the employee data store
```

```
conn.Close()
```

```
coll.Remove()
```

D. Using factory As IDisposable = _

```
TryCast(DbProviderFactories.GetFactory(
```

```
"System.Data.SqlClient"), IDisposable)
```

```
Dim conn As DbConnection = factory.CreateConnection()
```

```
conn.ConnectionString = connString.ConnectionString
```

```
conn.Open()
```

```
' Get the employees. The connection to the database
```

```
' is given as parameter
```

```
IstEmployees = GetEmployees(conn)
```

End Using

Answer: A

10. You create Web-based client applications. You are reviewing a Web application page that populates a list of all employees of your company.

You analyze code and find that the Web application page does not prevent exceptions from traveling to the browser.

You need to ensure that the Web application page intercepts exceptions and presents an error message to the browser.

What change should you suggest?

A. Add the following code segment to the Web.config file.

```
<system.web>
  <compilation debug="true"/>
</system.web>
```

B. Add the following code segment to the page.

```
Protected Sub Page_Error(ByVal sender As Object, _
  ByVal e As System.EventArgs) Handles Me.Error
  Response.Redirect("error.aspx")
End Sub
```

C. Add the following code segment to the Web.config file.

```
<system.web>
  <customErrors mode="Off"/>
</system.web>
```

D. Change the Load event handler to the following code segment.

```
Protected Sub Page_Load(ByVal sender As Object, _
  ByVal e As System.EventArgs) Handles Me.Load
  Try
    LoadEmployees()
  Catch
    Response.Redirect("error.aspx")
  End Try
End Sub
```

Answer: B

11. You create Web-based client applications. You create a Web site that will be used to simulate different types of loans. You are writing a method to calculate the payment on a simple loan.

You write the following lines of code for the method. (Comments are included for reference only.)

```

Public Shared Function Payment(ByVal loanAmount As Decimal, _
ByVal period As Integer, ByVal rate As Decimal) As Decimal
    If Not (loanAmount > 0) OrElse _
        Not (period > 1) OrElse _
            Not (rate > 0) Then ' Line A
        Throw New Exception("Invalid input!") ' Line B
    Else
        'code to calculate payment
        Return 877.57D ' Line C: return a calculated payment
    End If
End Function

Public Shared Function CheckBalance(ByVal account As ULong) _
As Decimal
    Return 877.57D ' Line D: return calculated balance
End Function

```

You write the following code for the unit test.

```

<TestMethod> _
Public Sub PaymentTest()
    Dim payment As Decimal =
        LoanPayment(100000, 360, 10) ' Line E
    Assert.AreEqual(_payment, 877.57D) ' Line F
End Sub

```

You enable coverage testing for this unit test.

You need to identify the coverage of your test.

Which lines are covered by the test?

- A. Lines commented A, B, and C
- B. Lines commented A and C
- C. Lines commented A, B, C, D, E, and F
- D. Lines commented A, B, C, E, and F

Answer: B

12. You create Web-based applications. You are creating an Internet banking application.

You write the following lines of code to represent a method in your application. (Line numbers are included for reference only.)

```

01 public void Transfer(decimal amount, BankAccount account)
02     {
03         if (!(amount > 0))
04             throw new Exception("Invalid deposit amount!");
05         else
06             {
07                 this.Withdraw(amount);
08                 account.Deposit(amount);
09             }
10     }

```

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 void TransferTest()
03     {
04
05         BankAccount target = new BankAccount();
06         BankAccount transferTo = new BankAccount();
07         target.Deposit(500);
08         target.Transfer(100,transferTo);
09         Assert.Inconclusive("A method that does not return a value cannot be verified.");
10     }

```

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

Which line of code should replace the code on line 09 of the unit test?

- A. Assert.AreEqual (400M, target.Balance);
- B. Assert.IsTrue (target.Balance != 400M);
- C. Debug.Assert (target.Balance == 400M,"passed");
- D. Debug.Assert (target.Balance == 400M,"failed");

Answer: A

13. You create Web-based applications. You are creating an Internet banking application.

You write the following lines of code to represent a method in your application. (Line numbers are included

for reference only.)

```

01 Public Sub Transfer(ByVal amount As Decimal, _
    ByVal account As BankAccount)
02     If Not (amount > 0) Then
03         Throw New Exception("Invalid deposit amount!")
04     Else
05         Me.Withdraw(amount)
06         account.Deposit(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 TransferTest()
03     Dim target As BankAccount = New BankAccount()
04     Dim transferTo As BankAccount = New BankAccount()
05     target.Deposit(500)
06     target.Transfer(100, transferTo)
07     Assert.Inconclusive(_
    "A method that does not return a value cannot be verified.")
08 End Sub

```

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

Which line of code should replace the code on line 07 of the unit test?

- A. Assert.AreEqual(400D, target.Balance)
- B. Assert.IsTrue(target.Balance <> 400D)
- C. Debug.Assert(target.Balance = 400D, "passed")
- D. Debug.Assert(target.Balance = 400D, "failed")

Answer: A

14. You create Web-based client applications. You are creating an application that must access different databases depending on whether the application is in demonstration, production, or test mode. The mode is stored in an environment variable.

The configuration file contains the following settings.

```
<connectionStrings>
  <add name = "ProdDB" connectionString = "Data Source = server; Initial Catalog = ProdDatabase;
Integrated_Security = true" providerName = "System.Data.SqlClient" />
  <add name = "DemoDB" connectionString = "Data Source = server; Initial Catalog = DemoDatabase;
Integrated_Security = true" providerName = "System.Data.SqlClient" />
  <add name = "TestDB" connectionString = "Data Source = server; Initial Catalog = TestDatabase;
Integrated_Security = true"
  providerName = "System.Data.SqlClient" />
</connectionStrings>
```

You need to ensure that changing the mode will not require you to change the configuration file.

Which code segment should you use?

A. public string GetConnectionString() {

```
#if PROD
```

```
    return WebConfigurationManager.ConnectionStrings["ProdDB"].ConnectionString;
```

```
#elseif DEMO
```

```
    return WebConfigurationManager.ConnectionStrings["DemoDB"].ConnectionString;
```

```
#else
```

```
    return WebConfigurationManager.ConnectionStrings["TestDB"].ConnectionString;
```

```
#endif
```

```
}
```

B. public string GetConnectionString() {

```
    return WebConfigurationManager.ConnectionStrings[
```

```
        Environment.GetEnvironmentVariable("WebAppModeDB").ConnectionString;
```

```
}
```

C. public string GetConnectionString() {

```
    return ConfigurationSettings.AppSettings[Environment.GetEnvironmentVariable("WebAppModeDB")];
```

```
}
```

D. public string GetConnectionString() {

```
#if PROD
```

```
    return ConfigurationSettings.AppSettings["ProdDB"];
```

```
#elseif DEMO
```

```
    return ConfigurationSettings.AppSettings["DemoDB"];
```

```
#else
```

```
    return ConfigurationSettings.AppSettings["TestDB"];
```

```
#endif
}
E. public string GetConnectionString() {
    return WebConfigurationManager.ConnectionStrings["Database"].
    ConnectionString;
}
```

Answer: B

15. You create Web-based client applications. You are creating an application that must access different databases depending on whether the application is in demonstration, production, or test mode. The mode is stored in an environment variable.

The configuration file contains the following settings.

```
<connectionStrings>
  <add name = "ProdDB" connectionString = "Data Source = server; Initial Catalog = ProdDatabase;
Integrated_Security = true" providerName = "System.Data.SqlClient" />
  <add name = "DemoDB" connectionString = "Data Source = server; Initial Catalog = DemoDatabase;
Integrated_Security = true" providerName = "System.Data.SqlClient" />
  <add name = "TestDB" connectionString = "Data Source = server; Initial Catalog = TestDatabase;
Integrated_Security = true"
  providerName = "System.Data.SqlClient" />
</connectionStrings>
```

You need to ensure that changing the mode will not require you to change the configuration file.

Which code segment should you use?

```
A. Public Function GetConnectionString() As String
    #If PROD Then
        Return WebConfigurationManager. _
        ConnectionStrings("ProdDB").ConnectionString
    #Elseif DEMO Then
        Return WebConfigurationManager. _
        ConnectionStrings("DemoDB").ConnectionString
    #Else
        Return WebConfigurationManager. _
        ConnectionStrings("TestDB").ConnectionString
    #End If
```

End Function

B. Public Function GetConnectionStringB() As String

```
Return WebConfigurationManager.ConnectionStrings( _  
    Environment.GetEnvironmentVariable("WebAppModeDB")) _  
    .ConnectionString()
```

End Function

C. Public Function GetConnectionString() As String

```
Return ConfigurationSettings.AppSettings( _  
    Environment.GetEnvironmentVariable("WebAppModeDB"))
```

End Function

D. Public Function GetConnectionString() As String

```
#If PROD Then  
    Return ConfigurationSettings.AppSettings("ProdDB")  
#Elseif DEMO Then  
    Return ConfigurationSettings.AppSettings("DemoDB")  
#Else  
    Return ConfigurationSettings.AppSettings("TestDB")  
#End If
```

End Function

E. Public Function GetConnectionString() As String

```
Return WebConfigurationManager. _  
    ConnectionStrings("Database").ConnectionString()
```

End Function

Answer: B



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