Exam Questions 70-511

TS: Windows Applications Development with Microsoft .NET Framework 4
1. You use Microsoft .NET Framework 4 to create a Windows Presentation Foundation (WPF) application. You add a custom command as a resource. The key of the command is saveCommand.

You write the following code fragment. (Line numbers are included for reference only.)

```xml
01 <Canvas> 02 03 <Button> 04 05 </Button> 06 </Canvas>
```

You need to ensure that saveCommand is executed when the user clicks the Button control.

What should you do?

A. Insert the following code fragment at line 04.

```xml
<Button.Command>
<StaticResource ResourceKey="saveCommand" /></Button.Command>
```

B. Insert the following code fragment at line 04.

```xml
<Button.CommandBindings>
<CommandBinding Command="{StaticResource saveCommand}" />
</Button.CommandBindings>
```

C. Insert the following code fragment at line 02.

```xml
<Canvas.CommandBindings>
<CommandBinding Command="{StaticResource saveCommand}" />
</Canvas.CommandBindings>
```

Replace line 03 with the following code fragment.

```xml
<Button CommandTarget="{Binding RelativeSource={RelativeSource Self}, Path=Parent}"/>
```

D. Insert the following code fragment at line 02.

```xml
<Canvas.CommandBindings>
<CommandBinding Command="{StaticResource saveCommand}" />
</Canvas.CommandBindings>
```

Replace line 03 with the following code fragment.

```xml
<Button CommandParameter="{Binding RelativeSource={RelativeSource Self}, Path=Parent}"/>
```

Answer: A


You need to ensure that the installation starts only if .NET Framework 4 is already installed on the computer.

What should you do?

A. Use a custom action.

B. Set the MinVersion property to .NET Framework 4.


D. Set the Version property of the Launch Condition to .NET Framework 4.

Answer: D

3. You are developing a Windows Presentation Foundation (WPF) application with multiple windows.

The majority of the buttons within the application are styled consistently. However, three buttons within the application must be styled differently.

You need to ensure that the application can handle this styling requirement.

What should you do?

A. Create the styles in the application resources. Specify the TargetType property to be Button for the default style but not for the three buttons.
B. Create the styles in the main window resources. Specify the TargetType property to be Button for the default style but not for the three buttons.

C. Create the styles in the main window resources. Omit the Key property for the default Button style and specify the Key property for the Button style and the three buttons.

D. Create the styles in the application resources. Omit the Key property for the default Button style and specify the Key property for the Button style and the three buttons.

Answer: D

Explanation: Explanation/Reference: I would expect TargetType for the default Style and key for the custom Style in the Application Resources

4. You are developing a Windows Presentation Foundation (WPF) application to play audio files. You add a MediaElement control named mediaElement1 and a Button control named btnPlayAudio to the design surface. The MediaElement control Source attribute is set to an audio file. The LoadedBehavior attribute is set to Manual.

You add the following code to the main window.

```csharp
void playCommand_Executed(object sender, RoutedEventArgs e) {
    mediaElement1.Play();
}
```

You set the command of the button to MediaCommands.Play.

You need to ensure that the application will play the audio file when the button is pressed.

What should you add to the constructor of the main window?

A. RoutedCommand playCommand = new RoutedCommand(); playCommand.CanExecuteChanged += new EventHandler(playCommand_Executed);
this.CommandBindings.Add(new CommandBinding(playCommand));

B. RoutedUICommand playCommand = new RoutedUICommand(); playCommand.CanExecuteChanged += new EventHandler(playCommand_Executed);
this.CommandBindings.Add(new CommandBinding(playCommand));

C. CommandBinding playCommand = new CommandBinding(MediaCommands.Play); playCommand.CanExecute += new CanExecuteRoutedEventArgs(playCommand_Executed); this.CommandBindings.Add(playCommand);

D. CommandBinding playCommand = new CommandBinding(MediaCommands.Play); playCommand.Executed += new ExecutedRoutedEventArgs(playCommand_Executed); this.CommandBindings.Add(playCommand);

Answer: D

5. You use Microsoft .NET Framework 4 to create a Windows Forms application. You have a dataset as shown in the following exhibit.

You plan to add a DataGridView to display the dataset.

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

- Shows Order Details for the selected order.
- Shows only Order Details for items that have UnitPrice greater than 20
- Sorts Products by ProductName

Which code segment should you use?

A. ordersBindingSource.DataSource = producxsBindingSource; ordersBindingSource.DataMember = "FK_Order_Details_Products"; productsBindingSource.Filter = "UnitPrice > 20"; productsBindingSource.Sort = "ProductName";

B. productsDataGridView.DataSource = ordersBindingSource; productsBindingSource.Filter = "UnitPrice > 20"; productsBindingSource.Sort = "ProductName";

C. order_DetailsBindingSource.DataSource = ordersBindingSource; order_DetailsBindingSource.DataMember = "FK_Order_Details_Orders".
order_DetailsBindingSource.Filter = "UnitPrice > 20"; productsBindingSource.Sort = "ProductName";

D. order_DetailsDataGridView.DataSource = ordersBindingSource; order_DetailsBindingSource.DataMember = "FK_Order_Details_Orders".
order_DetailsBindingSource.Filter = "UnitPrice > 20"; productsBindingSource.Sort = "ProductName";

Answer: C

6. You use Microsoft .NET Framework 4 to create a Windows Presentation Foundation (WPF) application.
You want to add an audio player that plays .wav or .mp3 files when the user clicks a button. You plan to store the name of the file to a variable named SoundFilePath.

You need to ensure that when a user clicks the button, the file provided by SoundFilePath plays.

What should you do?

A. Write the following code segment in the button onclick event.

```csharp
System.Media.SoundPlayer player = new System.Media.SoundPlayer(SoundFilePath);
player.Play();
```

B. Write the following code segment in the button onclick event.

```csharp
MediaPlayer player = new MediaPlayer();
player.Open(new Uri(SoundFilePath), UriKind.Relative));
player.Play();
```

C. Use the following code segment from the PlaySound() Win32 API function and call the PlaySound function in the button onclick event.

```csharp
[DllImport("winmm.dll")]
public static extern long PlaySound(String SoundFilePath, long hModule, long dwFlags);
```

D. Reference the Microsoft.DirectX Dynamic Link Libraries. Use the following code segment in the button onclick event.

```csharp
Audio song = new Song(SoundFilePath);
song.CurrentPosition = song.Duration;
song.Play();
```

Answer: B

7. You use Microsoft .NET Framework 4 to create a Windows Presentation Foundation (WPF) application.

You add a ListBox control to the application. The ListBox control is data-bound to an instance of a custom collection class of the Product objects named ProductList.

The number of items of the data-bound collection is fixed. However, users can modify the properties of each of the Product objects in the collection.

You need to ensure that changes made on the Product objects are automatically reflected in the ListBox control.

What should you do?

A. Implement the INotifyPropertyChanged interface in the Product class.

B. Implement the INotifyCollectionChanged interface in the ProductList class.

C. Set the Mode property of the Binding object of the ListBox control to TwoWay.

D. Set the UpdateSourceTrigger property of the Binding object of the ListBox control to PropertyChanged.

Answer: A

8. You use Microsoft .NET Framework 4 to create a Windows Forms application.

You plan to use a Windows Presentation Foundation (WPF) control of the UserControl1 type hosted in an ElementHost control named elementHost1.

You write the following code segment. (Line numbers are included for reference only.)

```csharp
01 public class WpflWinForms {
02     public WpflWinForms {
03         InitializeComponent();
04         
05         }  
06         
07             private void OnBackColorChange(object sender, String propertyName, object value) {
08         
09             ElementHost host = sender as ElementHost;
12             UserControl1 uc1 = host.Child as UserControl1;
13             uc1.Background = background;
14         }
15     }
```
You need to ensure that the application changes the background color of the hosted control when the background color of the form changes.

Which code segment should you insert at line 05?


Answer: A

9. You are developing a Windows Presentation Foundation (WPF) application.

You need to use XAML to create a custom control that contains two Button controls.

From which base class should you inherit?

A. `FrameworkElement`

B. `UIElement`

C. `UserControl`

D. `Button`

Answer: C

10. You are developing a Microsoft .NET 4 application.

You need to ensure that security error trapping handles transparency violations.

What should you do?

A. Handle all thrown transparency violations explicitly.

B. Handle only SecurityAction.Demand transparency violations.

C. Handle only SecurityAction.Assert transparency violations.

D. Handle only SecurityAction.PermitOnly transparency violations.

Answer: A

11. You use Microsoft .NET Framework 4 to create a Windows Presentation Foundation (WPF) application.

You use the ClickOnce deployment methodology to distribute the application.

You need to store application-specific data along with read/write permissions without requiring elevated permissions for the application.

Where should you store the application data?

A. In isolated storage

B. On the database server

C. In the ClickOnce data directory

D. in the App.config file of the application

Answer: A

12. You are developing a Windows Presentation Foundation (WPF) application.

An event triggers a workflow such that a parent control executes the event handlers before the child controls.

You need to ensure that if a parent control's event handler encounters an error, the subsequent handlers are not called.

What should you do?

A. Use handlers for a tunneling routed event and mark the event as handled in the case of a problem.

B. Use handlers for a tunneling routed event and mark the event as handled in the finally portion of a try-catch-finally code block.

C. Use handlers for a bubbling routed event and mark the event as handled in the case of a problem.

D. Use handlers for a bubbling routed event and set the Handled property of the RoutedEventArgs object to true in the catch portion of a try-catch-finally code block.

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You create a custom control named Wheel.
You need to ensure that the Speed property of Wheel can be animated.
What should you do?
A. Inherit the DependencyObject class.
B. Declare the Speed property as a dependency property.
C. Declare an animation of the Speed property from within the code-behind file.
D. Implement the System.Windows.Media.Animation.IAnimatable interface with the Wheel class.
Answer: B

14. You are developing a Windows Presentation Foundation (WPF) application. Users can enter formatted percentages into text boxes. The markup is as follows.

```
<TextBox Text="{(Binding Path=Percentage, Converter={StaticResource PercentValueConverter})}" />
```
Percentage is a decimal property.
You need to store the percentages as their decimal values, not their display values.
Which code segment should you use?
A. public object Convert (object value, Type targetType, object parameter, CultureInfo culture)
   {
       return ((decimal)value).ToString("P");
   }
B. public object ConvertBack(object value, Type targetType, object parameter, CultureInfo culture)
   {
       return (decimal.Parse(value.ToString()) / 100);
   }
C. public object ConvertBack(object value, Type targetType, object parameter, CultureInfo culture)
   {
       return (decimal.Parse(parameter.ToString()) / 100);
   }
D. public object Convert(object value, Type targetType, object parameter, CultureInfo culture)
   {
       return ((decimal)parameter).ToString("P");
   }
Answer: B

15. You are developing a Windows Presentation Foundation (WPF) application. The application has an Image control.
You need to ensure that a portion of the image displays in a circle in the control. What are two possible ways to achieve this goal? (Each correct answer presents a complete solution. Choose two.)
A. Add an Ellipse element to the control. Use Ellipse.Stroke and ImageBrush with the image as ImageSource.
C. Add an Ellipse element to the control. Use Ellipse.Fill and ImageBrush with the image as ImageSource.


Answer: C,D
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