## **Chapter 16 JavaFX UI Controls and Multimedia**

## Section 16.2 Labeled and Label 16.1 To create a label with the specified text, use. A. new Labelled(); B. new Label(); C. new Labelled(text); D. new Label(text); Your answer is correct 16.2 To set a red color for the text in the label lbl, use . A. lbl.setFill(Color.red); B. lbl.setTextFill(Color.red); C. lbl.setFill(Color.RED); D. lbl.setTextFill(Color.RED); Your answer is correct **16.3** \_\_\_\_\_ are properties in Labelled. A. alignment B. contentDisplay C. graphic D. text E. underline Your answer is correct 16.4 To set the node to the right of the text in a label lbl, use A. lbl.setContentDisplay(ContentDisplay.TOP); B. lbl.setContentDisplay(ContentDisplay.BOTTOM); C. lbl.setContentDisplay(ContentDisplay.LEFT); D. lbl.setContentDisplay(ContentDisplay.RIGHT);



Your answer is correct

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	16.5	is a superclass for Button.
	Α.	Label
<b>V</b>	в.	Labelled
<b>V</b>	C. 1	ButtonBase
	D.	Control
	E. :	Node
		Your answer BC is incorrect The correct answer is BCDE
	16.6	is a superclass for Label.
	Α.	Scene
<b>V</b>	в.	Labelled
	C.	ButtonBase
	D.	Control
	E. :	Node
	7	Your answer B is incorrect The correct answer is BDE
	16.7	The setOnAction method is defined in
0	Α.	Label
0	в.	Labelled
O	C. 3	Node
•	D. 1	ButtonBase
0	E. :	Button
	16.8	Your answer is correct Analyze the following code:
		<pre>import javafx.application.Application; import javafx.scene.Scene;</pre>

```
import javafx.scene.control.Button;
    import javafx.scene.image.Image;
    import javafx.scene.image.ImageView;
    import javafx.scene.layout.HBox;
    import javafx.stage.Stage;
   public class Test extends Application {
     @Override // Override the start method in the Application class
     public void start(Stage primaryStage) {
        HBox pane = new HBox(5);
        Image usIcon
   = new Image("http://www.cs.armstrong.edu/liang/image/usIcon.gif");
        Button bt1 = new Button("Button1", new ImageView(usIcon));
        Button bt2 = new Button("Button2", new ImageView(usIcon));
       pane.getChildren().addAll(bt1, bt2);
        Scene scene = new Scene(pane, 200, 250);
       primaryStage.setTitle("Test"); // Set the stage title
       primaryStage.setScene(scene); // Place the scene in the stage
       primaryStage.show(); // Display the stage
      /**
       * The main method is only needed for the IDE with limited JavaFX
       * support. Not needed for running from the command line.
     public static void main(String[] args) {
       launch (args);
    }
 A. Two buttons displayed with the same icon.
 B. Only bt2 displays the icon and bt1 does not display the icon.
 C. Only bt1 displays the icon and bt2 does not display the icon.
 D. Two buttons displayed with different icons.
   Your answer is correct
   Click here to show an explanation
16.9 Analyze the following code:
    import javafx.application.Application;
   import javafx.scene.Scene;
    import javafx.scene.control.Button;
   import javafx.scene.layout.StackPane;
   import javafx.stage.Stage;
   public class Test extends Application {
     @Override // Override the start method in the Application class
     public void start(Stage primaryStage) {
        StackPane pane = new StackPane();
```

Button bt1 = new Button("Java");
Button bt2 = new Button("Java");

```
Button bt3 = new Button("Java");
Button bt4 = new Button("Java");
pane.getChildren().addAll(bt1, bt2, bt3, bt4);

Scene scene = new Scene(pane, 200, 250);
primaryStage.setTitle("Test"); // Set the stage title
primaryStage.setScene(scene); // Place the scene in the stage
primaryStage.show(); // Display the stage
}

/**
    * The main method is only needed for the IDE with limited JavaFX
    * support. Not needed for running from the command line.
    */
public static void main(String[] args) {
    launch(args);
}
```

- A. One button is displayed with the text "Java".
  - B. Two buttons are displayed with the same text "Java".
  - C. Three buttons are displayed with the same text "Java".
  - D. Four buttons are displayed with the same text "Java".

Your answer is correct
Click here to show an explanation

## 16.10 Analyze the following code:

```
import javafx.application.Application;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.layout.Pane;
import javafx.scene.layout.FlowPane;
import javafx.stage.Stage;
public class Test extends Application {
  @Override // Override the start method in the Application class
  public void start(Stage primaryStage) {
    Pane pane = new FlowPane();
    Button bt1 = new Button("Java");
   Button bt2 = new Button("Java");
    Button bt3 = new Button("Java");
    Button bt4 = new Button("Java");
    pane.getChildren().addAll(bt1, bt2, bt3, bt4);
    Scene scene = new Scene (pane, 200, 250);
   primaryStage.setTitle("Test"); // Set the stage title
   primaryStage.setScene(scene); // Place the scene in the stage
   primaryStage.show(); // Display the stage
  /**
```

```
* The main method is only needed for the IDE with limited JavaFX
       * support. Not needed for running from the command line.
     public static void main(String[] args) {
       launch (args);
    }
 A. One button is displayed with the text "Java".
 B. Two buttons are displayed with the same text "Java".
 C. Three buttons are displayed with the same text "Java".
 D. Four buttons are displayed with the same text "Java".
   Your answer is correct
   Section 16.4 CheckBox
16.11
      checks whether the CheckBox chk is selected.
 A. chk.getSelected()
 B. chk.selected()
 C. chk.isSelected().
 D. chk.select()
   Your answer B is incorrect
   The correct answer is C
16.12 Which of the following statements are true?
 A. CheckBox inherits from ButtonBase.
 B. CheckBox inherits from Button.
 C. CheckBox inherits from Labelled.
 D. CheckBox inherits from Control.
 E. CheckBox inherits from Node.
   Your answer A is incorrect
   The correct answer is ACDE
   Section 16.5 RadioButton
16.13 Which of the following statements are true?
```

A. RadioButton inherits from ButtonBase.

V

```
B. RadioButton inherits from Button.
 C. RadioButton inherits from Labelled.
 D. RadioButton inherits from Control.
 E. RadioButton inherits from Node.
   Your answer A is incorrect
   The correct answer is ACDE
      checks whether the RadioButton rb is selected.
 A. rb.getSelected()
 B. rb.selected()
 C. rb.isSelected().
 D. rb.select()
   Your answer B is incorrect
   Click here to show the correct answer
16.15 Analyze the following code:
    import javafx.application.Application;
    import javafx.scene.Scene;
   import javafx.scene.control.RadioButton;
   import javafx.scene.control.ToggleGroup;
   import javafx.scene.layout.FlowPane;
   import javafx.scene.layout.Pane;
   import javafx.stage.Stage;
   public class Test extends Application {
     @Override // Override the start method in the Application class
     public void start(Stage primaryStage) {
        Pane pane = new FlowPane();
       ToggleGroup group = new ToggleGroup();
       RadioButton rb1 = new RadioButton("Java");
       RadioButton rb2 = new RadioButton("C++");
       pane.getChildren().addAll(rb1, rb2);
       Scene scene = new Scene (pane, 200, 250);
       primaryStage.setTitle("Test"); // Set the stage title
       primaryStage.setScene(scene); // Place the scene in the stage
       primaryStage.show(); // Display the stage
       * The main method is only needed for the IDE with limited JavaFX
       * support. Not needed for running from the command line.
```

```
*/
     public static void main(String[] args) {
       launch (args);
    }
 A. The program displays two radio buttons. The two radio buttons are grouped.
 B. The program displays one radio button with text Java.
 C. The program displays two radio buttons. The two radio buttons are not
   grouped.
 D. The program displays one radio button with text C++.
   Your answer is correct
   Click here to show an explanation
   Section 16.6 TextField
16.16 Which of the following statements are true?
 A. TextField inherits from TextInputControl.
 B. TextField inherits from ButtonBase.
 C. TextField inherits from Labelled.
 D. TextField inherits from Control.
 E. TextField inherits from Node.
   Your answer A is incorrect
   The correct answer is ADE
16.17 The properties can be used in a TextField.
 A. text
 B. editable
 C. alignment
 D. prefColumnCount
 E. onAction
   Your answer CDE is incorrect
   The correct answer is ABCDE
```

16.18 Which of the following statements are true?

✓

A. You can specify a horizontal text alignment in a text field.

V	в.	You can specify the number of columns in a text field.					
		You can disable editing on a text field.					
V		You can create a text field with a specified text.					
		Your answer ABD is incorrect The correct answer is ABCD					
	16.1	The method gets the contents of the text field tf.					
•	Α.	tf.getText(s)					
0	В.	. tf.getText()					
0	C.	. tf.getString()					
0	D.	tf.findString()					
		Your answer A is incorrect The correct answer is B					
	16.2	Which of the following statements are true?					
	Α.	PasswordField inherits from TextInputControl.					
<b>V</b>	В.	PasswordField inherits from TextField.					
	C.	PasswordField inherits from Labelled.					
	D.	PasswordField inherits from Control.					
	Ε.	PasswordField inherits from Node.					
		Your answer B is incorrect The correct answer is ABDE					
	16.2	Which of the following statements are true?					
	Α.	You can specify a horizontal text alignment in a text area.					
	В.	You can specify the number of columns in a text area.					
	C.	You can disable editing on a text area.					
V	D.	You can create a text field with a specified text area.					
~	Ε.	You can specify the number of rows in a text area.					
		Your answer DE is incorrect The correct answer is BCDE					

	16.23 To wrap a line in a text area ta, invoke
O	A. ta.setLineWrap(false)
C	B. ta.setLineWrap(true)
0	C. ta.WrapLine()
$\odot$	D. ta.wrapText()
O	E. ta.setWrapText(true)
	Your answer D is incorrect The correct answer is E
	16.24 To wrap a line in a text area jta on words, invoke
0	A. jta.setWrapStyleWord(false)
•	B. jta.setWrapStyleWord(true)
0	<pre>C. jta.wrapStyleWord()</pre>
0	D. jta.wrapWord()
	Your answer is correct  16.25 Which of the following statements are true?
<b>~</b>	A. TextArea inherits from TextInputControl.
	B. TextArea inherits from TextField.
	C. TextArea inherits from Labelled.
	D. TextArea inherits from Control.
	E. TextArea inherits from Node.
	Your answer A is incorrect The correct answer is ADE  Section 16.8 ComboBox
	16.26 How many items can be added into a ComboBox object?
O	A. 0
O	B. 1
0	C. 2

0	D. Unlimited					
	Your answer is correct					
	16.27 How many items can be selected from a ComboBox at a time?					
0	A. 0					
•	B. 1					
0	C. 2					
0	D. Unlimited					
	Your answer is correct					
_	16.28 returns the selected item on a ComboBox cbo.					
•	A. cbo.getSelectedIndex()					
0	. cbo.getSelectedItem()					
0	C. cbo.getSelectedIndices()					
0	D. cbo.getSelectedItems()					
U	E. cbo.getValue()					
	Your answer A is incorrect The correct answer is E					
	16.29 The method adds an item s into a ComboBox cbo.					
0	A. cbo.add(s)					
0	B. cbo.addChoice(s)					
0	<pre>C. cbo.addItem(s)</pre>					
0	D. cbo.addObject(s)					
⊙	<pre>E. cbo.getItems().add(s)</pre>					
	Your answer is correct					
_	<b>16.30</b> Which of the following statements are true?					
	A. ComboBox inherits from ComboBoxBase.					
	B. ComboBox inherits from ButtonBase.					
	C. ComboBox inherits from Labelled.					

	D. ComboBox inherits from Control.						
	E. ComboBox inherits from Node.						
	Your answer A is incorrect The correct answer is ADE						
	16.31 You can use the properties in a ComboBox.						
V V	A. value						
	B. editable						
	C. onAction						
	D. items						
	E. visibleRowCount						
	Your answer ABC is incorrect Click here to show the correct answer  Section 16.9 Lists						
	16.32 are properties for a ListView.						
<b>V</b>	A. items						
V	B. orientation						
V	C. selectionModel						
	D. visibleRowCount						
	E. onAction						
	Your answer is correct						
	16.33 Which of the following statements are true?						
	A. ListView inherits from ComboBoxBase.						
	B. ListView inherits from ButtonBase.						
	C. ListView inherits from Labelled.						
	D. ListView inherits from Control.						
	E. ListView inherits from Node.						
	Your answer A is incorrect The correct answer is DE						

```
change is _____.
    A. lv.getItems().addListener(e -> {processStatements});
    B. lv.addListener(e -> {processStatements});
    C. lv.getSelectionModel().selectedItemProperty().addListener(e ->
      {processStatements});
0
    D. lv.getSelectionModel().addListener(e -> {processStatements});
      Your answer is correct
      Section 16.10 ScrollBar
  16.35 _____ are properties of ScrollBar.
哮
    A. value
    B. min
    C. max
    D. orientation
    E. visibleAmount
      Your answer is correct
  16.36 The statement for registering a listener for processing scroll bar value
      change is _____.
0
    A. sb.addListener(e -> {processStatements});
    B. sb.getValue().addListener(e -> {processStatements});
    C. sb.valueProperty().addListener(e -> {processStatements});
    D. sb.getItems().addListener(e -> {processStatements});
      Your answer is correct
      Section 16.11 Slider
  16.37 _____ are properties of Slider.
    A. value
    B. min
    C. max
    D. orientation
```

16.34 The statement for registering a listener for processing list view item

	Ε.	visibleAmount					
		Your answer ABCD is incorrect The correct answer is ABCDE					
	16.3	The statement for registering a listener for processing slider change is					
O	Α.	<pre>sl.addListener(e -&gt; {processStatements});</pre>					
O	В.	<pre>sl.getValue().addListener(e -&gt; {processStatements});</pre>					
$\odot$	С.	<pre>sl.valueProperty().addListener(e -&gt; {processStatements});</pre>					
0	D.	<pre>sl.getItems().addListener(e -&gt; {processStatements});</pre>					
		Your answer is correct					
		Section 16.13 Video and Audio					
	16.3	39 Which of the following statements are true?					
	Α.	A Media can be shared by multiple MediaPlayer.					
	В.	B. A MediaPlayer can be shared by multiple MediaView.					
<b>V</b>	С.	A MediaView can be placed into multiple Pane.					
	D.	A Media can be downloaded from a URL.					
		Your answer C is incorrect The correct answer is ABD					
	<i>16.</i> 4	You can use the methods to control a MediaPlayer.					
	Α.	start().					
	В.	stop().					
<b>V</b>	C.	pause().					
~	D.	play().					
		Your answer is correct					
	<i>16.</i> 4	11 You can use the properties to control a MediaPlayer.					
<b>V</b>	Α.	autoPlay					
~	В.	currentCount					
~	C.	cycleCount					

