

Homework

The following homework is designed to cover the course objectives for this unit.

Assignment 6.1:

Research the ITT Tech Virtual Library to find out the methods used in the CardLayout class to switch from one component to another. Present your findings in the form of a report listing all the methods. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.2:

Research the ITT Tech Virtual Library to find out what the GridBagConstraints.fill field controls. Present your findings in the form of a report describing the features of the GridBagConstraints.fill field. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.3:

Research the ITT Tech Virtual Library to list the four arguments for the constructor of the GridLayout manager. Present your findings in the form of a list containing all the arguments for the GridLayout manager's constructor. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.4:

Research the ITT Tech Virtual Library to explain how to add components to a layout controlled by a GridBagLayout layout manager. Present your findings in the form of a list of steps explaining the process. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.5:

Research the ITT Tech Virtual Library to find out what the weightx and weighty fields of the GridBagConstraints control. Present your findings in the form of a list explaining what each field controls. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.6:

Research the ITT Tech Virtual Library to state the five methods you must provide implementations for while implementing the LayoutManager interface. Cite your sources using Chicago Manual of Style format. Submit your report to your instructor at the beginning of Unit 7.

Assignment 6.7:

Answer the following questions and submit them to your instructor at the beginning of Unit 7. **Note:** Some questions go across multiple pages; be sure to read the entire question and all answer options.

1. _____ can be shared by a GUI component.
(Hint: There are multiple answers.)
 - a. A GUI component
 - b. An image icon
 - c. A Font object
 - d. A layout object
 - e. A Color object
2. Which of the following methods create a `LineBorder`?
(Hint: There are multiple answers.)
 - a. `BorderFactory.createLineBorder(Color.YELLOW)`
 - b. `new LineBorder(Color.YELLOW, 3, true)`
 - c. `new LineBorder(Color.YELLOW, 3)`
 - d. `new LineBorder()`
 - e. `BorderFactory.createLineBorder(Color.YELLOW, 4)`
3. Which of the following properties are in `JApplet`?
 - a. `resizable`
 - b. `title`
 - c. `iconImage`
 - d. `jMenuBar`
 - e. `contentPane`
4. Which of the following properties are in `CardLayout`?
(Hint: There are multiple answers.)
 - a. `visible`
 - b. `layout`
 - c. `vgap`
 - d. `alignment`
 - e. `hgap`

5. Suppose that a container `c` uses a `CardLayout` manager `p`. Which of the following methods are valid? (Hint: There are multiple answers.)
- a. `p.next(c)`
 - b. `p.first(c)`
 - c. `p.last(c)`
 - d. `p.previous(c)`
6. The `Box` class uses _____.
- a. `CardLayout`
 - b. `FlowLayout`
 - c. `GridLayout`
 - d. `BorderLayout`
 - e. `BoxLayout`
7. You can construct a `JTabbedPane` using _____.
- a. `new JTabbedPane(Component)`
 - b. `new JTabbedPane(Component[])`
 - c. `new JTabbedPane(Component, Component)`
 - d. `new JTabbedPane()`
8. To use no layout manager in a container `c`, use _____.
- a. `c.setLayout(new NullLayout())`
 - b. `c.setLayout()`
 - c. `c.setLayout(null)`
 - d. `c.setLayout(NullLayout)`
9. Which of the following are the valid methods in `JTabbedPane`? (Hint: There are multiple answers.)
- a. `getTabPlacement()`
 - b. `getTitleAt(index)`
 - c. `getToolTipTextAt(index)`
 - d. `getTabCount()`
10. A border object is an instance of _____.
- a. `BevelBorder`
 - b. `Border`
 - c. `LineBorder`
 - d. `EmptyBorder`
 - e. `TitledBorder`

11. Which of the following properties are in JFrame?
- a. resizable
 - b. contentPane
 - c. title
 - d. iconImage
 - e. jMenuBar
12. _____ puts a flexible spring around a component.
- a. OverlayLayout
 - b. BoxLayout
 - c. BorderLayout
 - d. SpringLayout
 - e. GridLayout
13. Which of the following properties are in GridLayout?
(Hint: There are multiple answers.)
- a. hgap
 - b. visible
 - c. vgap
 - d. alignment
 - e. layout
14. Which of the following properties are in BorderLayout?
(Hint: There are multiple answers.)
- a. layout
 - b. vgap
 - c. hgap
 - d. visible
 - e. alignment
15. Which of the following properties in java.awt.Component may affect layout?
(Hint: There are multiple answers.)
- a. preferredSize
 - b. background
 - c. maximumSize
 - d. minimumSize
 - e. font

16. You can construct a JSplitPane using _____.
a. new JSplitPane(Component, Component)
b. new JSplitPane(Component[])
c. new JSplitPane(Component)
d. new JSplitPane()
17. Suppose that a container c uses a CardLayout manager p. Which of the following methods are valid? (Hint: There are multiple answers.)
a. p.last(c)
b. p.previous(c)
c. p.next(c)
d. p.first(c)
18. Every layout manager is an instance of _____.
a. the Layout class
b. the Layout interface
c. the LayoutManager interface
d. the LayoutManager class
19. Which of the following properties are in FlowLayout? (Hint: There are multiple answers.)
a. alignment
b. visible
c. layout
d. vgap
e. hgap
20. You can construct a JScrollPane using _____.
a. new JScrollPane()
b. new JScrollPane(Component[])
c. new JScrollPane(Component, Component)
d. new JScrollPane(Component)