Button Class Methods

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| **Sr. no.** | **Method** | **Description** |
| 1. | void setText (String text) | It sets the string message on the button |
| 2. | String getText() | It fetches the String message on the button. |
| 3. | void setLabel (String label) | It sets the label of button with the specified string. |
| 4. | String getLabel() | It fetches the label of the button. |
| 5. | void addNotify() | It creates the peer of the button. |
| 6. | AccessibleContext getAccessibleContext() | It fetched the accessible context associated with the button. |
| 7. | void addActionListener(ActionListener l) | It adds the specified action listener to get the action events from the button. |
| 8. | String getActionCommand() | It returns the command name of the action event fired by the button. |
| 9. | ActionListener[ ] getActionListeners() | It returns an array of all the action listeners registered on the button. |
| 10. | T[ ] getListeners(Class listenerType) | It returns an array of all the objects currently registered as FooListeners upon this Button. |
| 11. | protected String paramString() | It returns the string which represents the state of button. |
| 12. | protected void processActionEvent (ActionEvent e) | It process the action events on the button by dispatching them to a registered ActionListener object. |
| 13. | protected void processEvent (AWTEvent e) | It process the events on the button |
| 14. | void removeActionListener (ActionListener l) | It removes the specified action listener so that it no longer receives action events from the button. |
| 15. | void setActionCommand(String command) | It sets the command name for the action event given by the button. |

Note: The Button class inherits methods from java.awt.Component and java.lang.Object classes.

## Label Class Methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void setText(String text) | It sets the texts for label with the specified text. |
| 2. | void setAlignment(int alignment) | It sets the alignment for label with the specified alignment. |
| 3. | String getText() | It gets the text of the label |
| 4. | int getAlignment() | It gets the current alignment of the label. |
| 5. | void addNotify() | It creates the peer for the label. |
| 6. | AccessibleContext getAccessibleContext() | It gets the Accessible Context associated with the label. |
| 7. | protected String paramString() | It returns the string the state of the label. |

## TextField Class constructors

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| **Sr. no.** | **Constructor** | **Description** |
| 1. | TextField() | It constructs a new text field component. |
| 2. | TextField(String text) | It constructs a new text field initialized with the given string text to be displayed. |
| 3. | TextField(int columns) | It constructs a new textfield (empty) with given number of columns. |
| 4. | TextField(String text, int columns) | It constructs a new text field with the given text and given number of columns (width). |

## TextField Class Methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void addNotify() | It creates the peer of text field. |
| 2. | boolean echoCharIsSet() | It tells whether text field has character set for echoing or not. |
| 3. | void addActionListener(ActionListener l) | It adds the specified action listener to receive action events from the text field. |
| 4. | ActionListener[] getActionListeners() | It returns array of all action listeners registered on text field. |
| 5. | AccessibleContext getAccessibleContext() | It fetches the accessible context related to the text field. |
| 6. | int getColumns() | It fetches the number of columns in text field. |
| 7. | char getEchoChar() | It fetches the character that is used for echoing. |
| 8. | Dimension getMinimumSize() | It fetches the minimum dimensions for the text field. |
| 9. | Dimension getMinimumSize(int columns) | It fetches the minimum dimensions for the text field with specified number of columns. |
| 10. | Dimension getPreferredSize() | It fetches the preferred size of the text field. |
| 11. | Dimension getPreferredSize(int columns) | It fetches the preferred size of the text field with specified number of columns. |
| 12. | protected String paramString() | It returns a string representing state of the text field. |
| 13. | protected void processActionEvent(ActionEvent e) | It processes action events occurring in the text field by dispatching them to a registered ActionListener object. |
| 14. | protected void processEvent(AWTEvent e) | It processes the event on text field. |
| 15. | void removeActionListener(ActionListener l) | It removes specified action listener so that it doesn't receive action events anymore. |
| 16. | void setColumns(int columns) | It sets the number of columns in text field. |
| 17. | void setEchoChar(char c) | It sets the echo character for text field. |
| 18. | void setText(String t) | It sets the text presented by this text component to the specified text. |

## TetArea Class Methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void addNotify() | It creates a peer of text area. |
| 2. | void append(String str) | It appends the specified text to the current text of text area. |
| 3. | AccessibleContext getAccessibleContext() | It returns the accessible context related to the text area |
| 4. | int getColumns() | It returns the number of columns of text area. |
| 5. | Dimension getMinimumSize() | It determines the minimum size of a text area. |
| 6. | Dimension getMinimumSize(int rows, int columns) | It determines the minimum size of a text area with the given number of rows and columns. |
| 7. | Dimension getPreferredSize() | It determines the preferred size of a text area. |
| 8. | Dimension preferredSize(int rows, int columns) | It determines the preferred size of a text area with given number of rows and columns. |
| 9. | int getRows() | It returns the number of rows of text area. |
| 10. | int getScrollbarVisibility() | It returns an enumerated value that indicates which scroll bars the text area uses. |
| 11. | void insert(String str, int pos) | It inserts the specified text at the specified position in this text area. |
| 12. | protected String paramString() | It returns a string representing the state of this TextArea. |
| 13. | void replaceRange(String str, int start, int end) | It replaces text between the indicated start and end positions with the specified replacement text. |
| 14. | void setColumns(int columns) | It sets the number of columns for this text area. |
| 15. | void setRows(int rows) | It sets the number of rows for this text area. |

## Checkbox Class Methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void addItemListener(ItemListener IL) | It adds the given item listener to get the item events from the checkbox. |
| 2. | AccessibleContext getAccessibleContext() | It fetches the accessible context of checkbox. |
| 3. | void addNotify() | It creates the peer of checkbox. |
| 4. | CheckboxGroup getCheckboxGroup() | It determines the group of checkbox. |
| 5. | ItemListener[] getItemListeners() | It returns an array of the item listeners registered on checkbox. |
| 6. | String getLabel() | It fetched the label of checkbox. |
| 7. | T[] getListeners(Class listenerType) | It returns an array of all the objects registered as FooListeners. |
| 8. | Object[] getSelectedObjects() | It returns an array (size 1) containing checkbox label and returns null if checkbox is not selected. |
| 9. | boolean getState() | It returns true if the checkbox is on, else returns off. |
| 10. | protected String paramString() | It returns a string representing the state of checkbox. |
| 11. | protected void processEvent(AWTEvent e) | It processes the event on checkbox. |
| 12. | protected void processItemEvent(ItemEvent e) | It process the item events occurring in the checkbox by dispatching them to registered ItemListener object. |
| 13. | void removeItemListener(ItemListener l) | It removes the specified item listener so that the item listener doesn't receive item events from the checkbox anymore. |
| 14. | void setCheckboxGroup(CheckboxGroup g) | It sets the checkbox's group to the given checkbox. |
| 15. | void setLabel(String label) | It sets the checkbox's label to the string argument. |
| 16. | void setState(boolean state) | It sets the state of checkbox to the specified state. |

## Choice Class Methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void add(String item) | It adds an item to the choice menu. |
| 2. | void addItemListener(ItemListener l) | It adds the item listener that receives item events from the choice menu. |
| 3. | void addNotify() | It creates the peer of choice. |
| 4. | AccessibleContext getAccessibleContext() | It gets the accessbile context related to the choice. |
| 5. | String getItem(int index) | It gets the item (string) at the given index position in the choice menu. |
| 6. | int getItemCount() | It returns the number of items of the choice menu. |
| 7. | ItemListener[] getItemListeners() | It returns an array of all item listeners registered on choice. |
| 8. | T[] getListeners(Class listenerType) | Returns an array of all the objects currently registered as FooListeners upon this Choice. |
| 9. | int getSelectedIndex() | Returns the index of the currently selected item. |
| 10. | String getSelectedItem() | Gets a representation of the current choice as a string. |
| 11. | Object[] getSelectedObjects() | Returns an array (length 1) containing the currently selected item. |
| 12. | void insert(String item, int index) | Inserts the item into this choice at the specified position. |
| 13. | protected String paramString() | Returns a string representing the state of this Choice menu. |
| 14. | protected void processEvent(AWTEvent e) | It processes the event on the choice. |
| 15. | protected void processItemEvent (ItemEvent e) | Processes item events occurring on this Choice menu by dispatching them to any registered ItemListener objects. |
| 16. | void remove(int position) | It removes an item from the choice menu at the given index position. |
| 17. | void remove(String item) | It removes the first occurrence of the item from choice menu. |
| 18. | void removeAll() | It removes all the items from the choice menu. |
| 19. | void removeItemListener (ItemListener l) | It removes the mentioned item listener. Thus is doesn't receive item events from the choice menu anymore. |
| 20. | void select(int pos) | It changes / sets the selected item in the choice menu to the item at given index position. |
| 21. | void select(String str) | It changes / sets the selected item in the choice menu to the item whose string value is equal to string specified in the argument. |

# **Java AWT Canvas**

## Class methods

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| **Sr. no.** | **Method name** | **Description** |
| 1. | void addNotify() | It creates the canvas's peer. |
| 2. | void createBufferStrategy (int numBuffers) | It creates a new multi buffering strategies on the particular component. |
| 3. | void createBufferStrategy (int numBuffers, BufferCapabilities caps) | It creates a new multi buffering strategies on the particular component with the given buffer capabilities. |
| 4. | AccessibleContext getAccessibleContext() | It gets the accessible context related to the Canvas. |
| 5. | BufferStrategy getBufferStrategy() | It returns the buffer strategy used by the particular component. |
| 6. | void paint(Graphics g) | It paints the canvas with given Graphics object. |
| 7. | void pdate(Graphics g) | It updates the canvas with given Graphics object. |