**Type of events Foreground**

**Background**

**Delegation event model**

**Source Listener**

**Registering the source with Listener**

Keyevent🡪addKeyListener()

ActionEvent-🡪addActionListener()

**Event Classes in Java**

| Event Class | Listener Interface | Description |
| --- | --- | --- |
| ActionEvent | ActionListener | An event that indicates that a component-defined action occurred like a button click or selecting an item from the menu-item list. |
| AdjustmentEvent | AdjustmentListener | The adjustment event is emitted by an Adjustable object like Scrollbar. |
| ComponentEvent | ComponentListener | An event that indicates that a component moved, the size changed or changed its visibility. |
| ContainerEvent | ContainerListener | When a component is added to a container (or) removed from it, then this event is generated by a container object. |
| FocusEvent | FocusListener | These are focus-related events, which include focus, focusin, focusout, and blur. |
| ItemEvent | ItemListener | An event that indicates whether an item was selected or not. |
| KeyEvent | KeyListener | An event that occurs due to a sequence of keypresses on the keyboard. |
| MouseEvent | MouseListener & MouseMotionListener | The events that occur due to the user interaction with the mouse (Pointing Device). |
| MouseWheelEvent | MouseWheelListener | An event that specifies that the mouse wheel was rotated in a component. |
| TextEvent | TextListener | An event that occurs when an object’s text changes. |
| WindowEvent | WindowListener | An event which indicates whether a window has changed its status or not. |

| istener Interface | Abstract Methods |
| --- | --- |
| ActionListener | * actionPerformed() |
| AdjustmentListener | * adjustmentValueChanged() |
| ComponentListener | * componentResized() * componentShown() * componentMoved() * componentHidden() |
| ContainerListener | * componentAdded() * componentRemoved() |
| FocusListener | * focusGained() * focusLost() |
| ItemListener | * itemStateChanged() |
| KeyListener | * keyTyped() * keyPressed() * keyReleased() |
| MouseListener | * mousePressed() * mouseClicked() * mouseEntered() * mouseExited() * mouseReleased() |
| MouseMotionListener | * mouseMoved() * mouseDragged() |
| MouseWheelListener | * mouseWheelMoved() |
| TextListener | * textChanged() |
| WindowListener | * windowActivated() * windowDeactivated() * windowOpened() * windowClosed() * windowClosing() * windowIconified() * windowDeiconified() |