**Menu and MenuItem:-**

The Menu class represents pull-down menu component which is deployed from a menu bar.

The object of MenuItem class adds a simple labeled menu item on menu. The items used in a menu must belong to the MenuItem class

**Constructors for Menu**

|  |  |
| --- | --- |
| **S.N.** | **Constructor & Description** |
| 1 | **Menu()** Constructs a new menu with an empty label. |
| 2 | **Menu(String label)** Constructs a new menu with the specified label. |
| 3 | **Menu(String label, boolean tearOff)** Constructs a new menu with the specified label, indicating whether the menu can be torn off. |

**Class methods for Menu**

|  |  |
| --- | --- |
| **S.N.** | **Method & Description** |
| 1 | **MenuItem add(MenuItem mi)** Adds the specified menu item to this menu. |
| 2 | **void add(String label)** Adds an item with the specified label to this menu. |
| 3 | **void addNotify()** Creates the menu's peer. |
| 4 | **void addSeparator()** Adds a separator line, or a hypen, to the menu at the current position. |
| 5 | **int countItems()** Deprecated. As of JDK version 1.1, replaced by getItemCount(). |

**Constructors for Menuitem**

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| --- | --- |
| **S.N.** | **Constructor & Description** |
| 1 | **MenuItem()** Constructs a new MenuItem with an empty label and no keyboard shortcut. |
| 2 | **MenuItem(String label)** Constructs a new MenuItem with the specified label and no keyboard shortcut. |
| 3 | **MenuItem(String label, MenuShortcut s)** Create a menu item with an associated keyboard shortcut. |

**Class methods for Menuitem**

|  |  |
| --- | --- |
| **S.N.** | **Method & Description** |
| 1 | **void addActionListener(ActionListener l)** Adds the specified action listener to receive action events from this menu item. |
| 2 | **void addNotify()** Creates the menu item's peer. |
| 3 | **void deleteShortcut()** Delete any MenuShortcut object associated with this menu item. |
| 4 | **void disable()** Deprecated. As of JDK version 1.1, replaced by setEnabled(boolean). |
| 5 | **protected void disableEvents(long eventsToDisable)** Disables event delivery to this menu item for events defined by the specified event mask parameter. |
| 6 | **void enable()** Deprecated. As of JDK version 1.1, replaced by setEnabled(boolean). |

***import****java.awt.\*;*

***class****MenuExample*

*{*

*MenuExample(){*

*Frame f=****new****Frame("Menu and MenuItem Example");*

*MenuBar mb=****new****MenuBar();*

*Menu menu=****new****Menu("Menu");*

*Menu submenu=****new****Menu("Sub Menu");*

*MenuItem i1=****new****MenuItem("Item 1");*

*MenuItem i2=****new****MenuItem("Item 2");*

*MenuItem i3=****new****MenuItem("Item 3");*

*MenuItem i4=****new****MenuItem("Item 4");*

*MenuItem i5=****new****MenuItem("Item 5");*

*menu.add(i1);*

*menu.add(i2);*

*menu.add(i3);*

*submenu.add(i4);*

*submenu.add(i5);*

*menu.add(submenu);*

*mb.add(menu);*

*f.setMenuBar(mb);*

*f.setSize(400,400);*

*f.setLayout(****null****);*

*f.setVisible(****true****);*

*}*

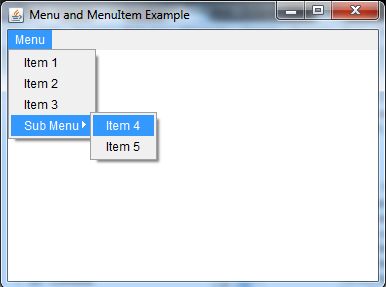
***public******static******void****main(String args[])*

*{*

***new****MenuExample();*

*}*

*}*

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