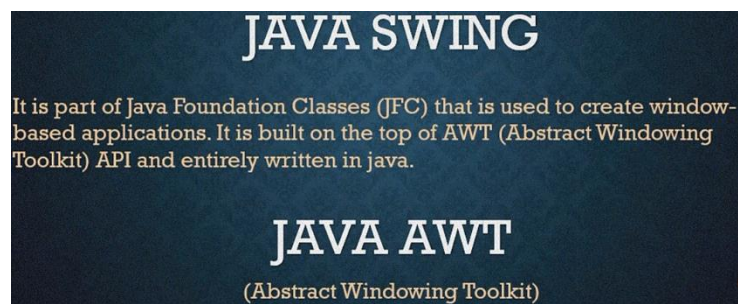


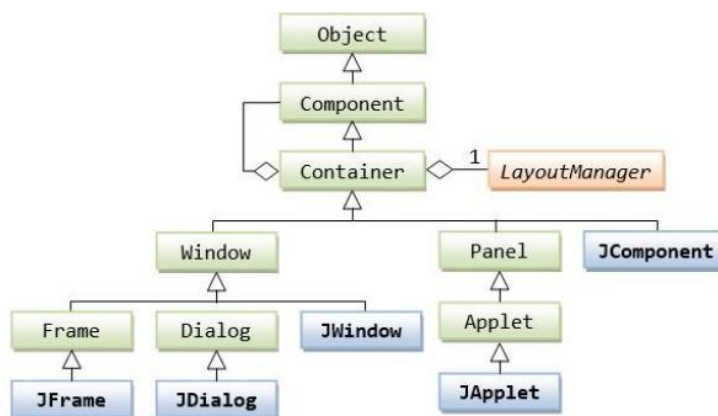
가. 자바 스윙 개념



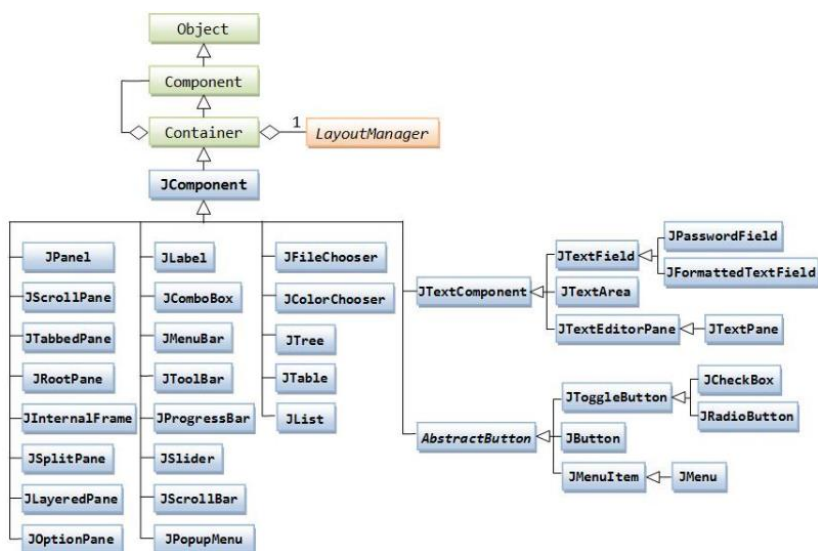
나. 자바 AWT & SWING

	Java AWT	Java Swing
플랫폼과의 관계	플랫폼과 무관(독립적)	플랫폼에 종속적
컴포넌트	무겁다. 종류 적다.	가볍다. 종류가 다양하다.
록엔필	pluggable 록엔필 제공X	pluggable 록엔필 제공O
MVC	MVC 패턴 따르지X	MVC 패턴을 따른다.

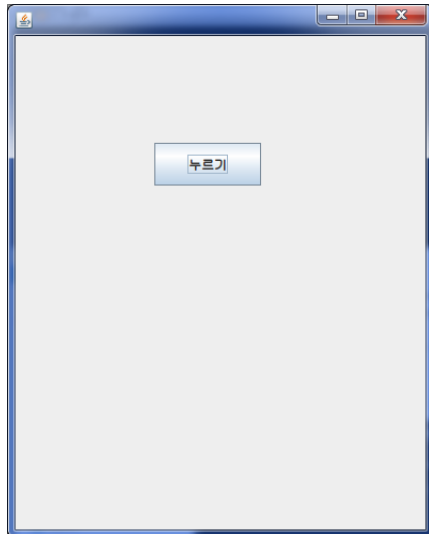
다. 스윙 클래스



라. 스윙의 JComponent



마. 첫 번째/두 번째 예제 만들기



2. 텍스트 컴포넌트

가. 레이블 컴포넌트



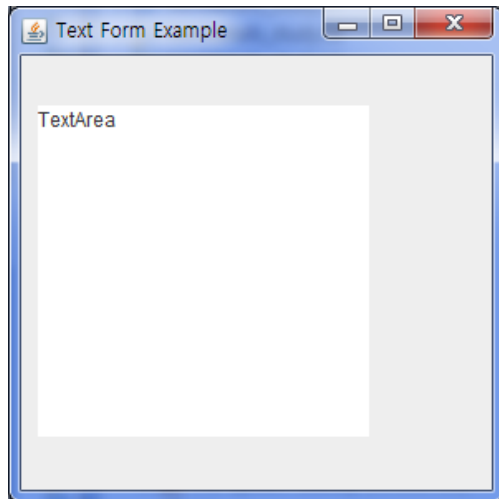
나. 텍스트 필드 컴포넌트

A screenshot of a Java Swing window titled 'Text Form Example'. The window has a title bar with standard controls. The main content area is light gray and contains a form with five text input fields and a button. The fields are arranged in a vertical stack. Each field has a red circled number next to its label: 1 First Name, 3 Middle Initial, 5 Last Name, 7 Age, and 9 누르기 (Push). The fields are rectangular with a light gray background and a thin border. The button is at the bottom, centered, and has a blue border and a light blue gradient.

다. 텍스트 Area 컴포넌트

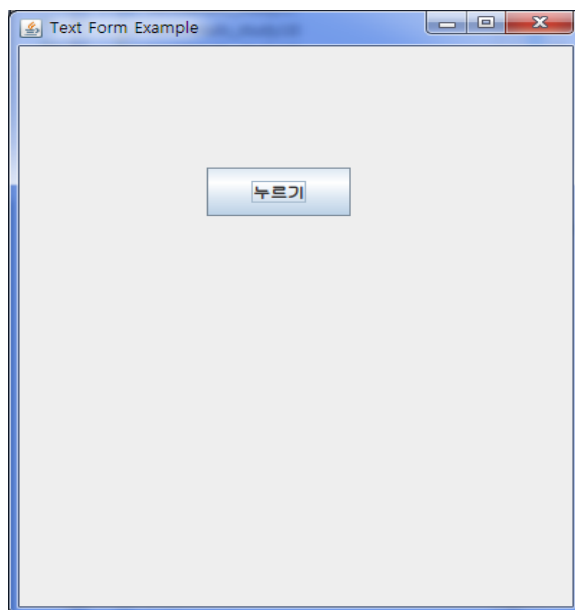
Text Field : One line input box

Text Area : Multi-line input box



3. 버튼 컴포넌트

가. 버튼 컴포넌트



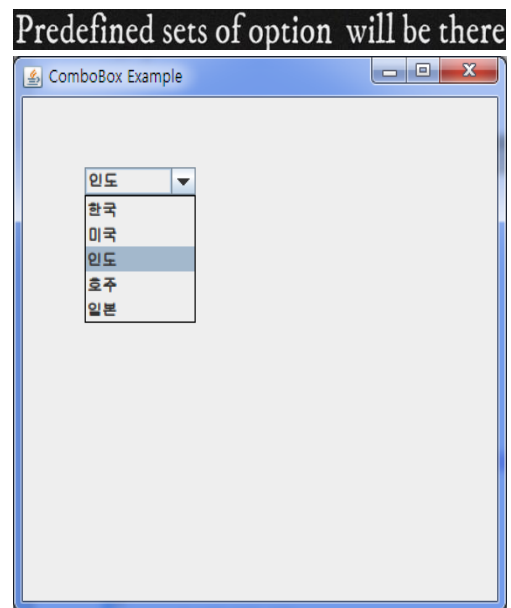
나. 체크버튼 컴포넌트

**Checkbox : It is used to turn
an option on/off**

Checkbutton	Radiobutton
multiple options	single option

다. 레디오버튼 컴포넌트

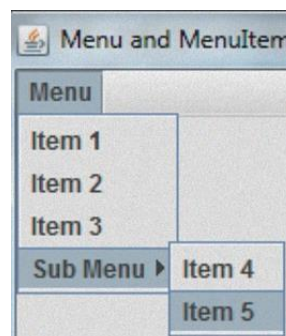
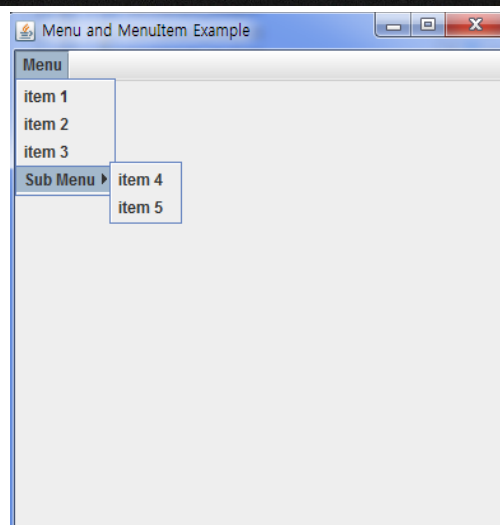
라. 콤보박스 컴포넌트



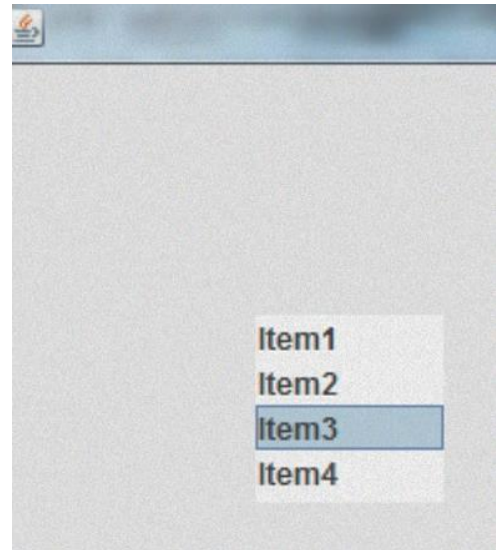
4. 기타 컴포넌트

가. 메뉴 컴포넌트

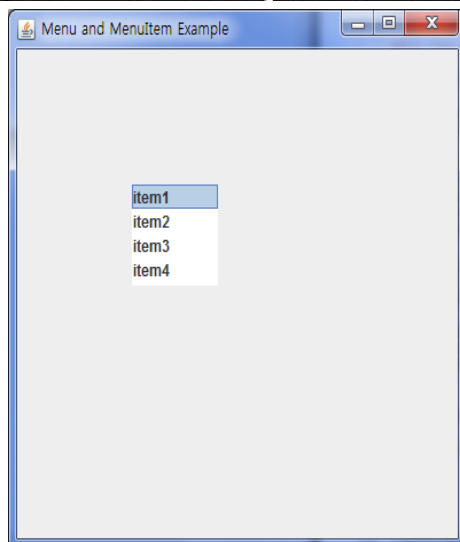
It is used to display menubar on the window or frame



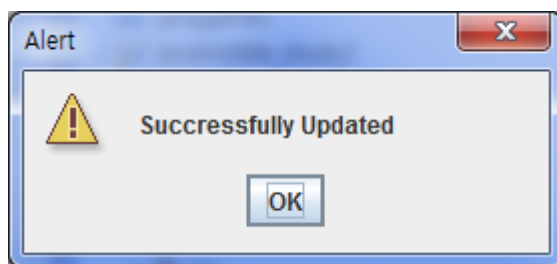
나. 리스트 컴포넌트



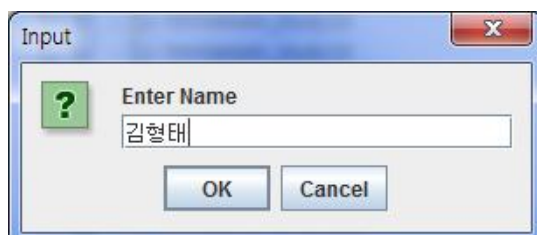
JList is used to represent a list of text items



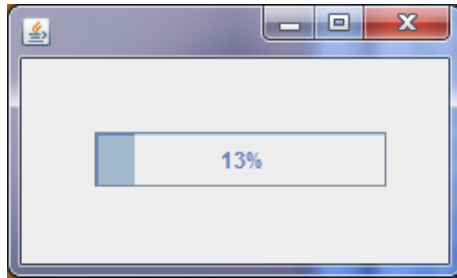
다. Optionpane 컴포넌트 1



라. Optionpane 컴포넌트 2



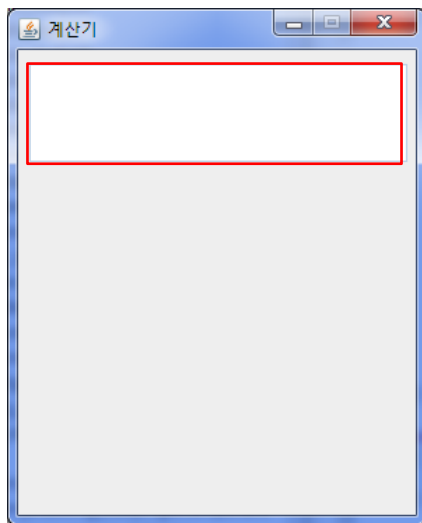
마. 진행바 컴포넌트



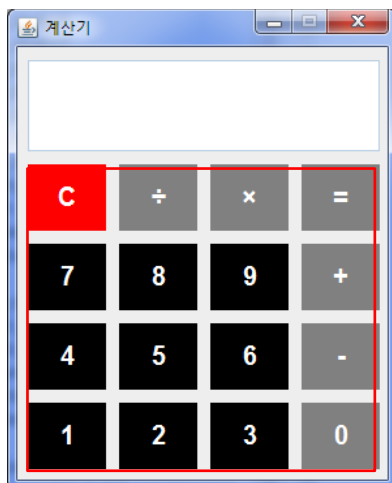
5. 간단한 계산기: 이벤트 처리, 레이아웃 설정

가. 파일 만들기

나. 기본 화면 만들기: 숫자 버튼 없음



다. 계산기능 구현: 숫자 버튼모양, 레이아웃 적용



라. 계산기능 구현: 이벤트 처리