**SpringLayout**

The class SpringLayout arranges the components of its container according to a set of constraints. Similar to the name, it manages the layout of its children/Spring. Every child of spring object controls the vertical or horizontal distance between the two components edges. In addition, for every child, it has exactly one set of constraint associated with it.

Some fields on SpringLayout Class

**static String BASELINE** : Specifies the baseline of a component.

**static String EAST** : Specifies the right edge of a component's bounding rectangle.

**static String WEST** − Specifies the left edge of a component's bounding rectangle.

**static String NORTH** − Specifies the top edge of a component's bounding rectangle.

**static String SOUTH** − Specifies the bottom edge of a component's bounding rectangle.

In the example below, it shows how to put constraints on the edge of the components.

package layout;

import java.awt.\*;

import javax.swing.\*;

public class SpringLayoutExample

{

public static void main(String[] arguments)

{

JFrame frame = new JFrame("SpringLayoutExample Example");

Container content = frame.getContentPane();

SpringLayout layout = new SpringLayout();

frame.setLayout(layout);

Component b[] = new JButton[5];

for(int i = 0; i<5; i++)

{

b[i] = new JButton("Student "+(i+1));

}

for(int i = 0; i<5; i++)

{

frame.add(b[i]);

}

layout.putConstraint(SpringLayout.WEST, b[0], 25, SpringLayout.WEST, content);

layout.putConstraint(SpringLayout.NORTH, b[0], 10, SpringLayout.NORTH, content);

layout.putConstraint(SpringLayout.WEST, b[1], 50, SpringLayout.WEST, content);

layout.putConstraint(SpringLayout.NORTH, b[1], 10, SpringLayout.SOUTH, b[0]);

layout.putConstraint(SpringLayout.WEST, b[2], 75, SpringLayout.WEST, content);

layout.putConstraint(SpringLayout.NORTH, b[2], 10, SpringLayout.SOUTH, b[1]);

layout.putConstraint(SpringLayout.WEST, b[3], 15, SpringLayout.EAST, b[0]);

layout.putConstraint(SpringLayout.NORTH, b[3], 10, SpringLayout.NORTH, content);

layout.putConstraint(SpringLayout.WEST, b[4], 15, SpringLayout.EAST, b[0]);

layout.putConstraint(SpringLayout.NORTH, b[4], 100, SpringLayout.SOUTH, b[0]);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

frame.setSize(300,200);

frame.setVisible(true);

// JFrame.setDefaultLookAndFeelDecorated(true);

}

}//end of the class.