**GridLayout**

The class **GridLayout** arranges components in a rectangular grid.

**constructors**

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| **S.N.** | **Constructor & Description** |
| 1 | **GridLayout()**  Creates a grid layout with a default of one column per component, in a single row. |
| 2 | **GridLayout(int rows, int cols)**  Creates a grid layout with the specified number of rows and columns. |
| 3 | **GridLayout(int rows, int cols, int hgap, int vgap)**  Creates a grid layout with the specified number of rows and columns. |

**Class methods**

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| --- | --- |
| **S.N.** | **Method & Description** |
| 1 | **void addLayoutComponent(String name, Component comp)**  Adds the specified component with the specified name to the layout. |
| 2 | **int getColumns()**  Gets the number of columns in this layout. |
| 3 | **int getHgap()**  Gets the horizontal gap between components. |
| 4 | **int getRows()**  Gets the number of rows in this layout. |
| 5 | **int getVgap()**  Gets the vertical gap between components. |

**Example**

import java.awt.\*;

import java.awt.event.\*;

public class GRIDDEMO {

private Frame mainFrame;

private Label headerLabel;

private Label statusLabel;

private Panel controlPanel;

private Label msglabel;

public GRIDDEMO(){

prepareGUI();

}

public static void main(String[] args){

GRIDDEMO GRIDDEMO = new GRIDDEMO();

GRIDDEMO.showGridLayoutDemo();

}

private void prepareGUI(){

mainFrame = new Frame("Java AWT Examples");

mainFrame.setSize(400,400);

mainFrame.setLayout(new GridLayout(3, 1));

mainFrame.addWindowListener(new WindowAdapter() {

public void windowClosing(WindowEvent windowEvent){

System.exit(0);

}

});

headerLabel = new Label();

headerLabel.setAlignment(Label.CENTER);

statusLabel = new Label();

statusLabel.setAlignment(Label.CENTER);

statusLabel.setSize(350,100);

msglabel = new Label();

msglabel.setAlignment(Label.CENTER);

msglabel.setText("Welcome to CDAC Jaipur.");

controlPanel = new Panel();

controlPanel.setLayout(new FlowLayout());

mainFrame.add(headerLabel);

mainFrame.add(controlPanel);

mainFrame.add(statusLabel);

mainFrame.setVisible(true);

}

private void showGridLayoutDemo(){

headerLabel.setText("Layout in action: GridLayout");

Panel panel = new Panel();

panel.setBackground(Color.darkGray);

panel.setSize(300,300);

GridLayout layout = new GridLayout(0,3);

layout.setHgap(10);

layout.setVgap(10);

panel.setLayout(layout);

panel.add(new Button("Button 1"));

panel.add(new Button("Button 2"));

panel.add(new Button("Button 3"));

panel.add(new Button("Button 4"));

panel.add(new Button("Button 5"));

controlPanel.add(panel);

mainFrame.setVisible(true);

}

}

