

File

New

Java Project

Insert Name for eg abc

Don't Create Module

Right Click on the Project

Select New Class

Insert Name

```
import javax.swing.JFrame;
import javax.swing.SwingUtilities;

public class abc {
    public static void main(String[] args) {
        SwingUtilities.invokeLater(new Runnable() {
            public void run() {

                JFrame frame = new JFrame("Hello world swing");
                frame.setVisible(true);
                frame.setSize(500, 500);
                frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

            }
        });
    }
}
```

#Creating MainFrame

Click on right button to JFrame

Insert new Class by naming MainFrame

Brows to JFrame

```
import java.awt.BorderLayout;
import java.awt.Container;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JTextArea;
```

```

public class MainFrame extends JFrame {

    public MainFrame(String title) {
        super(title);

        // Set layout Manager
        setLayout(new BorderLayout());

        //Create Swing component
        JTextArea textArea = new JTextArea();
        JButton button = new JButton("Click me");

        //Add Swing components to content pane
        Container c = getContentPane();

        c.add(textArea, BorderLayout.CENTER);
        c.add(button, BorderLayout.SOUTH);

        //Add behavior
        button.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                textArea.append("Hello");
            }

        });
    }
}

```

To Create Panel Right Click on Panel

Create a new class

By naming PanelDetails

Brows to Panel

Additional changes to Main Frame

```

import java.awt.BorderLayout;
import java.awt.Container;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;

```

```

import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JTextArea;

public class MainFrame extends JFrame {

    private DetailsPanel detailsPanel;
    public MainFrame(String title) {
        super(title);

        // Set layout Manager
        setLayout(new BorderLayout());

        //Create Swing component
        JTextArea textArea = new JTextArea();
        JButton button = new JButton("Click me");
        detailsPanel = new DetailsPanel();

        //Add Swing components to content pane
        Container c = getContentPane();

        c.add(textArea, BorderLayout.CENTER);
        c.add(button, BorderLayout.SOUTH);
        c.add(detailsPanel, BorderLayout.WEST);

        //Add behavior
        button.addActionListener(new ActionListener() {

            @Override
            public void actionPerformed(ActionEvent e) {
                // TODO Auto-generated method stub
                textArea.append("Hello");
            }

        });
    }
}

```

In Panel Class

```

import java.awt.Dimension;
import java.awt.GridBagConstraints;
import java.awt.GridBagLayout;
import java.awt.Panel;
import javax.swing.JButton;
import javax.swing.JLabel;
import javax.swing.JTextField;

```

```

public class DetailsPanel extends Panel {
    public DetailsPanel() {
        Dimension size = getPreferredSize();
        size.width = 200;
        setPreferredSize(size);
        JLabel nameLabel = new JLabel("Name:");
        JLabel occupationalLabel = new JLabel("Occupation:");
        JTextField nameField = new JTextField(10);
        JTextField occupationalField = new JTextField(10);
        JButton addBtn = new JButton("Add");
        setLayout(new GridBagLayout());
        GridBagConstraints gc = new GridBagConstraints();
    }
}

```

GridBag Constraints

```

// First column//
gc.anchor = GridBagConstraints.LAST_LINE_END;
gc.weightx = 0.5;
gc.weighty = 0.5;

gc.gridx = 0;
gc.gridy = 0;
add(nameLabel, gc);

gc.gridx = 0;
gc.gridy = 1;
add(occupationalLabel, gc);

// Second Column

gc.anchor = GridBagConstraints.LAST_LINE_START;
gc.gridx = 1;
gc.gridy = 0;
add(nameField, gc);

gc.gridx = 1;
gc.gridy = 1;
add(occupationalField, gc);

// Final row
gc.weightx = 10;
gc.anchor = GridBagConstraints.FIRST_LINE_START;
gc.gridx = 1;

```

```
gc.gridy = 2;  
add(addBtn, gc);
```