```java
1 package EjerciciosBloque3;
2
3 import java.awt.BorderLayout;
4 import java.awt.Color;
5 import java.awt.Font;
6 import java.awt.event.InputEvent;
7 import java.awt.event.KeyEvent;
8 import javax.swing.ButtonGroup;
9 import javax.swing.ImageIcon;
10 import javax.swing.JButton;
11 import javax.swing.JFrame;
12 import javax.swing.JMenu;
13 import javax.swing.JMenuBar;
14 import javax.swing.JMenuItem;
15 import javax.swing.JPanel;
16 import javax.swing.JPopupMenu;
17 import javax.swing.JRadioButtonMenuItem;
18 import javax.swing.JScrollPane;
19 import javax.swing.JTextPane;
20 import javax.swing.JToolBar;
21 import javax.swing.KeyStroke;
22 import javax.swing.text.StyledEditorKit;
23
24 public class _01_ProcesadorDeTextosFull {
25
26     public static void main(String[] args) {
27
28         MarcoProcesadorTexto miMarco = new MarcoProcesadorTexto();
29     }
30 }
31
32 class MarcoProcesadorTexto extends JFrame {
33
34     public MarcoProcesadorTexto() {
35
36         setSize(700, 500);
37         setTitle("Procesador de Textos");
38         setLocationRelativeTo(null);
39
40         add(new LaminaProcesadorTexto());
41
42         setVisible(true);
43         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
44     }
45 }
46
47 class LaminaProcesadorTexto extends JPanel {
48
49     JPanel laminaSup;
50     private JMenuBar barraMenu;
51     private JMenu menuFuente, menuEstilo, menuTamanio;
52     private JMenuItem fuenteArial, fuenteCourier, fuenteVerdana, estiloNegrita,
    estiloCursiva, estiloSubrayado;
53     private JRadioButtonMenuItem radio12, radio16, radio20, radio24;
54     private ButtonGroup radioGrupo = new ButtonGroup();
55     private JTextPane textPane;
56     private String lorem = "At vero eos et accusamus \nEt iusto odio dignissimos ducimus
    qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas
    molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui
    officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum
    facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio
    cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas
```

assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat. \n \n At vero eos et accusamus \nEt iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat. \n \n";

```java
57      private JScrollPane scrollPanel;
58      private JPopupMenu popupMenu;
59      private JToolBar toolBar;
60      private JButton toolBold, toolItalic, toolUnderline, toolBlue, toolGreen, toolRed,
    toolLeft, toolCenter, toolRight;
61
62      public LaminaProcesadorTexto() {
63
64          setLayout(new BorderLayout());
65
66          add(laminaSup = new JPanel(), BorderLayout.NORTH);
67
68          // ----------------------BARRA MENU--------------------------------
69          laminaSup.add(barraMenu = new JMenuBar());
70          barraMenu.add(menuFuente = new JMenu("Fuente"));
71          barraMenu.add(menuEstilo = new JMenu("Estilo"));
72          barraMenu.add(menuTamanio = new JMenu("Tamaño"));
73
74          MenuItems items = new MenuItems();
75
76          // ----------------------ITEMS FUENTE------------------------------
77          menuFuente.add(items.fuenteArial());
78          menuFuente.add(items.fuenteCourier());
79          menuFuente.add(items.fuenteVerdana());
80
81          // ----------------------ITEMS ESTILO------------------------------
82          menuEstilo.add(items.estiloNegrita());
83          menuEstilo.add(items.estiloCursiva());
84          menuEstilo.add(items.estiloSubrayado());
85
86          // ----------------------ITEMS TAMAÑO------------------------------
87          menuTamanio.add(items.radio12());
88          menuTamanio.add(items.radio16());
89          menuTamanio.add(items.radio20());
90          menuTamanio.add(items.radio24());
91          radioGrupo.add(radio12);
92          radioGrupo.add(radio16);
93          radioGrupo.add(radio20);
94          radioGrupo.add(radio24);
95
96          // ----------------------TEXT PANE---------------------------------
97          add(textPane = new JTextPane());
98          textPane.setText(lorem);
99          textPane.setFont(new Font("Times New Roman", Font.PLAIN, 16));
100         add(scrollPanel = new JScrollPane(textPane));
101
102         ClaseOyentes oyentes = new ClaseOyentes();
103
```

```java
104        // -----------------------POPUP MENU--------------------------------
105        popupMenu = new JPopupMenu();
106
107        popupMenu.add(items.fuenteArial());
108        popupMenu.add(items.fuenteCourier());
109        popupMenu.add(items.fuenteVerdana());
110
111        popupMenu.addSeparator();
112        popupMenu.add(items.estiloNegrita());
113        popupMenu.add(items.estiloCursiva());
114        popupMenu.add(items.estiloSubrayado());
115
116        popupMenu.addSeparator();
117        popupMenu.add(items.radio12());
118        popupMenu.add(items.radio16());
119        popupMenu.add(items.radio20());
120        popupMenu.add(items.radio24());
121        radioGrupo.add(radio12);
122        radioGrupo.add(radio16);
123        radioGrupo.add(radio20);
124        radioGrupo.add(radio24);
125
126        textPane.setComponentPopupMenu(popupMenu);
127
128        add(BarraDeHerramientas(), BorderLayout.WEST);
129
130        ClaseOyentes oyentes2 = new ClaseOyentes();
131    }
132
133    // ---------------------CLASE OYENTES--------------------------------
134    private class ClaseOyentes {
135
136        public ClaseOyentes () {
137            fuenteArial.addActionListener(new StyledEditorKit.FontFamilyAction(null,
    "Arial"));
138            fuenteCourier.addActionListener(new StyledEditorKit.FontFamilyAction(null,
    "Courier"));
139            fuenteVerdana.addActionListener(new StyledEditorKit.FontFamilyAction(null,
    "Verdana"));
140
141            estiloNegrita.addActionListener(new StyledEditorKit.BoldAction());
142            estiloCursiva.addActionListener(new StyledEditorKit.ItalicAction());
143            estiloSubrayado.addActionListener(new StyledEditorKit.UnderlineAction());
144
145            estiloNegrita.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_N,
    InputEvent.CTRL_DOWN_MASK));
146            estiloCursiva.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_K,
    InputEvent.CTRL_DOWN_MASK));
147            estiloSubrayado.setAccelerator(KeyStroke.getKeyStroke(KeyEvent.VK_S,
    InputEvent.CTRL_DOWN_MASK));
148
149            radio12.addActionListener(new StyledEditorKit.FontSizeAction(null, 12));
150            radio16.addActionListener(new StyledEditorKit.FontSizeAction(null, 16));
151            radio20.addActionListener(new StyledEditorKit.FontSizeAction(null, 20));
152            radio24.addActionListener(new StyledEditorKit.FontSizeAction(null, 24));
153        }
154    }
155
156    // -------------------------------------------CLASE
    ITEMS------------------------------------------
157    private class MenuItems {
158
```

```java
159         public JMenuItem fuenteArial() {return fuenteArial = new JMenuItem("Arial", new
   ImageIcon("src/images/tipo.png"));}
160         public JMenuItem fuenteCourier() {return fuenteCourier = new JMenuItem("Courier",
   new ImageIcon("src/images/tipo.png"));}
161         public JMenuItem fuenteVerdana() {return fuenteVerdana = new JMenuItem("Verdana",
   new ImageIcon("src/images/tipo.png"));}
162
163         public JMenuItem estiloNegrita() {return estiloNegrita = new JMenuItem("Negrita",
   new ImageIcon("src/images/style.png"));}
164         public JMenuItem estiloCursiva() {return estiloCursiva = new JMenuItem("Cursiva",
   new ImageIcon("src/images/style.png"));}
165         public JMenuItem estiloSubrayado() {return estiloSubrayado = new
   JMenuItem("Subrayado", new ImageIcon("src/images/style.png"));}
166
167         public JRadioButtonMenuItem radio12() {return radio12 = new
   JRadioButtonMenuItem("12", new ImageIcon("src/images/fontSize.png"));}
168         public JRadioButtonMenuItem radio16() {return radio16 = new
   JRadioButtonMenuItem("16", new ImageIcon("src/images/fontSize.png"));}
169         public JRadioButtonMenuItem radio20() {return radio20 = new
   JRadioButtonMenuItem("20", new ImageIcon("src/images/fontSize.png"));}
170         public JRadioButtonMenuItem radio24() {return radio24 = new
   JRadioButtonMenuItem("24", new ImageIcon("src/images/fontSize.png"));}
171     }
172
173     //
   ----------------------------------------TOOLBAR---------------------------------------
   -------
174     private JToolBar BarraDeHerramientas() {
175
176         toolBar = new JToolBar("ToolBar");
177         toolBar.setOrientation(1);
178
179         toolBar.addSeparator();
180         toolBar.add(toolBold = new JButton(new ImageIcon("src/images/bold.png")));
181         toolBar.add(toolItalic = new JButton(new ImageIcon("src/images/italic.png")));
182         toolBar.add(toolUnderline = new JButton(new
   ImageIcon("src/images/underline.png")));
183         toolBar.addSeparator();
184         toolBar.add(toolBlue = new JButton(new ImageIcon("src/images/azul.png")));
185         toolBar.add(toolGreen = new JButton(new ImageIcon("src/images/verde.png")));
186         toolBar.add(toolRed = new JButton(new ImageIcon("src/images/rojo.png")));
187         toolBar.addSeparator();
188         toolBar.add(toolLeft = new JButton(new ImageIcon("src/images/izqda.png")));
189         toolBar.add(toolCenter = new JButton(new ImageIcon("src/images/centro.png")));
190         toolBar.add(toolRight = new JButton(new ImageIcon("src/images/dcha.png")));
191
192         toolBold.addActionListener(new StyledEditorKit.BoldAction());
193         toolItalic.addActionListener(new StyledEditorKit.ItalicAction());
194         toolUnderline.addActionListener(new StyledEditorKit.UnderlineAction());
195
196         toolBlue.addActionListener(new StyledEditorKit.ForegroundAction(null, Color.BLUE));
197         toolGreen.addActionListener(new StyledEditorKit.ForegroundAction(null,
   Color.GREEN.darker()));
198         toolRed.addActionListener(new StyledEditorKit.ForegroundAction(null, Color.RED));
199
200         toolLeft.addActionListener(new StyledEditorKit.AlignmentAction(null, 0));
201         toolCenter.addActionListener(new StyledEditorKit.AlignmentAction(null, 1));
202         toolRight.addActionListener(new StyledEditorKit.AlignmentAction(null, 2));
203
204         return toolBar;
205     }
206 }
```

```java
 1 package EjerciciosBloque3;
 2
 3 import java.awt.GridBagLayout;
 4
 5 import javax.swing.Box;
 6 import javax.swing.JButton;
 7 import javax.swing.JFrame;
 8 import javax.swing.JLabel;
 9 import javax.swing.JPanel;
10 import javax.swing.JTextField;
11
12 public class _02_DisposicionesBox {
13
14     public static void main(String[] args) {
15
16         MarcoDisposicionesBox marco = new MarcoDisposicionesBox();
17     }
18 }
19
20 class MarcoDisposicionesBox extends JFrame {
21
22     public MarcoDisposicionesBox() {
23
24         setSize(400, 600);
25         setTitle("  Disposiciones Box");
26         setLocationRelativeTo(null);
27
28         add(new LaminaDisposicionesBox());
29
30         pack();
31         setVisible(true);
32         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
33     }
34 }
35
36 class LaminaDisposicionesBox extends JPanel {
37
38     public LaminaDisposicionesBox() {
39
40         Box boxH1 = Box.createHorizontalBox();
41         Box boxH2 = Box.createHorizontalBox();
42         Box boxH3 = Box.createHorizontalBox();
43
44         boxH1.add(Box.createHorizontalStrut(50));
45         boxH1.add(new JLabel("Nombre"));
46         boxH1.add(Box.createHorizontalStrut(20));
47         boxH1.add(new JTextField(20));
48         boxH1.add(Box.createHorizontalStrut(50));
49
50         boxH2.add(Box.createHorizontalStrut(50));
51         boxH2.add(new JLabel("Email"));
52         boxH2.add(Box.createHorizontalStrut(20));
53         boxH2.add(new JTextField(20));
54         boxH2.add(Box.createHorizontalStrut(50));
55
56         boxH3.add(Box.createHorizontalStrut(50));
57         boxH3.add(new JButton("Ok"));
58         boxH3.add(Box.createGlue());
59         boxH3.add(new JButton("Cancelar"));
60         boxH3.add(Box.createHorizontalStrut(50));
61
62         Box boxV = Box.createVerticalBox();
```

```
63
64          boxV.add(Box.createVerticalStrut(80));
65          boxV.add(boxH1);
66          boxV.add(Box.createVerticalStrut(30));
67          boxV.add(boxH2);
68          boxV.add(Box.createVerticalStrut(30));
69          boxV.add(boxH3);
70          boxV.add(Box.createVerticalStrut(100));
71
72          add(boxV);
73      }
74 }
```

```java
1  package EjerciciosBloque3;
2
3  import javax.swing.JButton;
4  import javax.swing.JFrame;
5  import javax.swing.JPanel;
6  import javax.swing.Spring;
7  import javax.swing.SpringLayout;
8
9  public class _03_DisposicionMuelle {
10
11      public static void main(String[] args) {
12
13          MarcoDisposicionMuelle marco = new MarcoDisposicionMuelle();
14      }
15  }
16
17  class MarcoDisposicionMuelle extends JFrame {
18
19      public MarcoDisposicionMuelle() {
20
21          setSize(800, 300);
22          setTitle("  Disposición Muelles");
23          setLocationRelativeTo(null);
24
25          add(new LaminaDisposicionMuelle());
26
27          setVisible(true);
28          setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
29      }
30  }
31
32  class LaminaDisposicionMuelle extends JPanel {
33
34      SpringLayout disposicion;
35
36      public LaminaDisposicionMuelle() {
37
38          setLayout(disposicion =new SpringLayout());
39
40          JButton btn1 = new JButton("Botón 1");
41          JButton btn2 = new JButton("Botón 2");
42          JButton btn3 = new JButton("Botón 3");
43
44          add(btn1);
45          add(btn2);
46          add(btn3);
47
48          Spring muelle = Spring.constant(0, 0, 10);
49          Spring muelleFijo = Spring.constant(50);
50
51          disposicion.putConstraint(SpringLayout.WEST, btn1, muelle, SpringLayout.WEST, this);
52          disposicion.putConstraint(SpringLayout.WEST, btn2, muelleFijo, SpringLayout.EAST,
   btn1);
53          disposicion.putConstraint(SpringLayout.WEST, btn3, muelleFijo, SpringLayout.EAST,
   btn2);
54          disposicion.putConstraint(SpringLayout.EAST, this, muelle, SpringLayout.EAST, btn3);
55      }
56  }
```

```java
1 package EjerciciosBloque3;
2
3 import javax.swing.JButton;
4 import javax.swing.JFrame;
5 import javax.swing.JLabel;
6 import javax.swing.JPanel;
7 import javax.swing.JTextField;
8
9 public class _04_DisposicionLibre {
10
11     public static void main(String[] args) {
12
13         MarcoDisposicionLibre marco = new MarcoDisposicionLibre();
14     }
15 }
16
17 class MarcoDisposicionLibre extends JFrame {
18
19     public MarcoDisposicionLibre() {
20
21         setTitle(" Disposición Libre");
22         setSize(400, 500);
23         setLocationRelativeTo(null);
24
25         add(new VentanaDisposicionLibre());
26
27         setVisible(true);
28         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
29     }
30 }
31
32 class VentanaDisposicionLibre extends JPanel {
33
34     public VentanaDisposicionLibre() {
35
36         setLayout(null);
37
38         JLabel txt1 = new JLabel("Nombre");
39         JLabel txt2 = new JLabel("Apellido");
40
41         JTextField field1 = new JTextField(20);
42         JTextField field2 = new JTextField(20);
43
44         JButton btn = new JButton("Enviar");
45
46         add(txt1).setBounds(50, 100, 50, 30);
47         add(field1).setBounds(150, 100, 150, 30);
48         add(txt2).setBounds(50, 200, 50, 30);
49         add(field2).setBounds(150, 200, 150, 30);
50         add(btn).setBounds(150, 300, 150, 30);
51     }
52 }
```

```java
 1 package EjerciciosBloque3;
 2
 3 import java.awt.Component;
 4 import java.awt.Container;
 5 import java.awt.Dimension;
 6 import java.awt.LayoutManager;
 7 import javax.swing.JButton;
 8 import javax.swing.JFrame;
 9 import javax.swing.JLabel;
10 import javax.swing.JPanel;
11 import javax.swing.JTextField;
12
13 public class _05_PlantillasPersonalizadas {
14
15     public static void main(String[] args) {
16
17         MarcoPlantillasPersonalizadas marco = new MarcoPlantillasPersonalizadas();
18     }
19 }
20
21 class MarcoPlantillasPersonalizadas extends JFrame {
22
23     public MarcoPlantillasPersonalizadas() {
24
25         setTitle(" Disposición Libre");
26         setSize(400, 400);
27         setLocationRelativeTo(null);
28
29         add(new VentanaPlantillasPersonalizadas());
30
31         setVisible(true);
32         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
33     }
34 }
35
36 class VentanaPlantillasPersonalizadas extends JPanel {
37
38     public VentanaPlantillasPersonalizadas() {
39
40         setLayout(new DistribucionPersonalizada());
41
42         JLabel txt1 = new JLabel("Nombre");
43         JLabel txt2 = new JLabel("Apellido");
44
45         JTextField field1 = new JTextField(20);
46         JTextField field2 = new JTextField(20);
47
48         JButton btn = new JButton("Enviar");
49
50         add(txt1);
51         add(field1);
52         add(txt2);
53         add(field2);
54         add(btn);
55     }
56
57     private class DistribucionPersonalizada implements LayoutManager {
58
59         @Override
60         public void layoutContainer(Container parent) {
61
62             int x = parent.getWidth() / 2;
```

```
63            int y = 50;
64
65            for (int i=0; i<parent.getComponentCount(); i++) {
66                parent.getComponent(i).setBounds(x-100, y, 100, 30);
67                x += 100;
68                if ((i+1) % 2 == 0) {
69                    x = parent.getWidth() / 2;
70                    y += 100;
71                }
72            }
73        }
74
75        @Override
76        public void addLayoutComponent(String name, Component comp) {
77            // TODO Auto-generated method stub
78        }
79
80        @Override
81        public void removeLayoutComponent(Component comp) {
82            // TODO Auto-generated method stub
83        }
84
85        @Override
86        public Dimension preferredLayoutSize(Container parent) {
87            // TODO Auto-generated method stub
88            return null;
89        }
90
91        @Override
92        public Dimension minimumLayoutSize(Container parent) {
93            // TODO Auto-generated method stub
94            return null;
95        }
96    }
97 }
```

_06_CuadroDialogos.java

```java
1  package EjerciciosBloque3;
2
3  import java.awt.event.ActionEvent;
4  import java.awt.event.ActionListener;
5  import javax.swing.JButton;
6  import javax.swing.JFrame;
7  import javax.swing.JOptionPane;
8  import javax.swing.JPanel;
9
10 public class _06_CuadroDialogos {
11
12     public static void main(String[] args) {
13
14         MarcoCuadroDialogos marco = new MarcoCuadroDialogos();
15     }
16 }
17
18 class MarcoCuadroDialogos extends JFrame {
19
20     public MarcoCuadroDialogos() {
21
22         setTitle(" Cuadros Diálogos");
23         setSize(600, 400);
24         setLocationRelativeTo(null);
25
26         add(new VentanaCuadroDialogos());
27
28         setVisible(true);
29         setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
30     }
31 }
32
33 class VentanaCuadroDialogos extends JPanel {
34
35     private JButton btn1, btn2, btn3, btn4;
36
37     public VentanaCuadroDialogos() {
38
39         add(btn1 = new JButton("Advertencia"));
40         add(btn2 = new JButton("Intro Datos"));
41         add(btn3 = new JButton("Confirmar"));
42         add(btn4 = new JButton("Selección"));
43
44         ClaseOyente oyente = new ClaseOyente();
45
46         btn1.addActionListener(oyente);
47         btn2.addActionListener(oyente);
48         btn3.addActionListener(oyente);
49         btn4.addActionListener(oyente);
50     }
51
52     private class ClaseOyente implements ActionListener {
53
54         @Override
55         public void actionPerformed(ActionEvent e) {
56
57             String tallas[] = {"S","M","L","XL"};
58
59             if (e.getSource() == btn1)
   JOptionPane.showMessageDialog(VentanaCuadroDialogos.this, "Le advertimos que ...",
   "Advertencia", 2);
60             if (e.getSource() == btn2)
```

```
        JOptionPane.showInputDialog(VentanaCuadroDialogos.this, "Introduzca sus datos");
61              if (e.getSource() == btn3)
        JOptionPane.showConfirmDialog(VentanaCuadroDialogos.this, "Elija una opción", "Confirmar",
        1);
62              if (e.getSource() == btn4)
        JOptionPane.showOptionDialog(VentanaCuadroDialogos.this, "Seleccione su talla", "Opciones",
        1, 1, null, tallas, 0);
63          }
64      }
65 }
```