Java Swing Short Notes

Java GUI Application

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The Publisher $\boxed{\mathcal{PL}}$

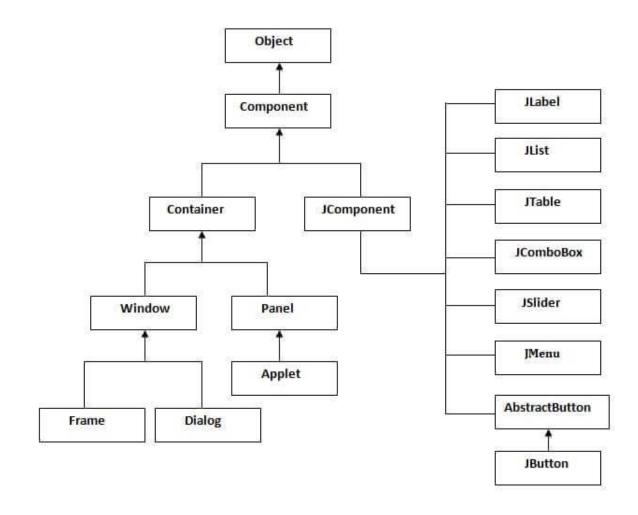
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Chapter 1

Swing Basics

1.1 Hierarchy of Java Swing Classes



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1.2 Some Important Methods Related to JOptionPane Class

| Methods Name | Description | |
|---------------------|--|--|
| showMessageDialog() | Tell the user about something that has happened. | |
| showInputDialog() | Prompt for some input. | |
| showOptionDialog() | The Grand Unification of the above three. | |
| showConfirmDialog() | Asks a confirming question, like yes/no/cancel. | |

1.2.1 showMessageDialog() Method

Syntax:

JOptionPane.showMessageDialog(parameters);

- component, object
- component, object, String, int
- component, object, String, int, Icon

Parameters Descriptions -

- Component The first parameter, which determines the Frame in which the dialog is displayed; if null, or if the parentComponent has no Frame, a default Frame is used.
- Object The second parameter can be any objects.
- String The third parameter is a String placed as the title of the message dialog window.
- int The int that follows the String is the MessageType. The different MessageTypes for JOptionPane, are:
 - ERROR_MESSAGE
 - INFORMATION MESSAGE
 - WARNING_MESSAGE
 - QUESTION_MESSAGE
 - PLAIN_MESSAGE
- Icon The last parameter is an Icon that is displayed inside the dialog and overrides the default MessageType icon.

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Example Code:

```
package SwingOne;
2 import javax.swing.ImageIcon;
3 import javax.swing.JOptionPane;
4 import java.awt.Image;
6 class MessageDialog{
  public static void main(String[] args) {
    ImageIcon icon = new ImageIcon("D:\\Programming\\Java\\PracticeProject\\Swing\\Icons\\
      done.png");
   Image image = icon.getImage();
    image = image.getScaledInstance(50, 50, Image.SCALE_SMOOTH);
11
    icon = new ImageIcon(image);
    JOptionPane.showMessageDialog(null, "Done", "Success", JOptionPane.DEFAULT_OPTION, icon);
13
14
15 }
```

1.2.2 JOptionPane Icons

| Icon | Code | IDE Value |
|----------|---------------------------------|-----------|
| No icon | JOptionPane.PLAIN_MESSAGE | -1 |
| X | JOptionPane.ERROR_MESSAGE | 0 |
| (i) | JOptionPane.INFORMATION_MESSAGE | 1 |
| <u> </u> | JOptionPane.WARNING_MESSAGE | 2 |
| 2 | JOptionPane.QUESTION_MESSAGE | 3 |

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1.2.3 showInputDialog() Method

Example Code:

```
package SwingOne;
2
3 import java.awt.Image;
4 import javax.swing.ImageIcon;
5 import javax.swing.JOptionPane;
7 class InputDialog{
   public static void main(String[] args) {
     ImageIcon icon = new ImageIcon("D:\\Programming\\Java\\PracticeProject\\Swing\\Icons\\
10
      user_Icon.png");
      Image img = icon.getImage();
11
      img = img.getScaledInstance(50, 50, Image.SCALE_SMOOTH);
12
      icon = new ImageIcon(img);
13
14
      String name = JOptionPane.showInputDialog(null, "User Name", "User Info", JOptionPane.
      INFORMATION_MESSAGE);
      int age = 0;
16
17
18
      try {
        int birthY = Integer.parseInt(JOptionPane.showInputDialog(null, "Birth Year: ", "User
      Info", JOptionPane.INFORMATION_MESSAGE));
20
      age = 2023-birthY;
21
       JOptionPane.showMessageDialog(null, "User Name: "+name+"\nAge: "+age, "User Info",
      JOptionPane.DEFAULT_OPTION,icon);
      } catch (NumberFormatException e) {
22
        JOptionPane.showMessageDialog(null, "Invalid Bith Year !!!", "Warning", JOptionPane.
23
      WARNING_MESSAGE);
24
25
26
27
28 }
```

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1.2.4 showConfirmDialog() Method

Example Code:

```
package SwingOne;
2
3 import java.awt.Image;
4 import javax.swing.ImageIcon;
5 import javax.swing.JOptionPane;
7 class ConfirmDialog{
   public static void main(String[] args) {
     int choice = JOptionPane.showConfirmDialog(null, "Do you want to Execute this Program ?"
10
      , "Confirmation", JOptionPane.YES_NO_OPTION, JOptionPane.QUESTION_MESSAGE);
11
12
      if (choice == JOptionPane.YES_OPTION) {
        JOptionPane.showMessageDialog(null, "Congratulations !!!", "Execute", JOptionPane.
13
      INFORMATION_MESSAGE);
     } else {
        JOptionPane.showMessageDialog(null, "Exit program", "Exit", JOptionPane.WARNING_MESSAGE)
15
16
17
18
19 }
```

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1.3 JFrame

1.3.1 Basic JFrame

Example Code 01:

```
package SwingOne;
3 import javax.swing.JFrame;
5 class JFrameExample{
   public static void main(String[] args) {
    JFrame frame = new JFrame();
    frame.setVisible(true);
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
10
11
    frame.setTitle("Frame Demo");
     frame.setResizable(false);
     //---- Set frame size
14
15 // frame.setSize(500,300);
16
      //---- Set frame at center
17
18 // frame.setLocationRelativeTo(null);
     //---- Custom location
19
20 //
      frame.setLocation(150,70);
21
     //---- Size and Location combine
23
     //frame.setBounds(left, top, with, height);
24
25
    frame.setBounds(150,70,500,300);
   }
26
27 }
```

Example Code 02: Using Constructor.

```
package SwingOne;
3 import javax.swing.JFrame;
5 class JFrameExample extends JFrame{
6
   JFrameExample() {
    setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    setTitle("Frame Demo");
    setBounds (150, 100, 350, 500);
10
11
   }
12
   public static void main(String[] args) {
13
    JFrameExample frame = new JFrameExample();
    frame.setVisible(true);
15
16
17 }
```

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1.3.2 Frame Decoration (Icon & Background Color)

Example Code:

```
package SwingOne;
3 import java.awt.Color;
4 import java.awt.Container;
5 import javax.swing.ImageIcon;
6 import javax.swing.JFrame;
8 class MakeFrame extends JFrame {
   private static final long serialVersionUID = 1L;
10
11
   private ImageIcon icon = null;
12
   private Container container = null;
13
   //---- Constructor
15
   MakeFrame() {
     setVisible(true);
     setTitle("Frame Demo");
18
     setDefaultCloseOperation(EXIT_ON_CLOSE);
19
20
    setLocationRelativeTo(null);
21
     setSize(350,500);
     22
23
24
    public void decorateFrame() {
25
     //---- Set Frame Icon -----
26
27
     icon = new ImageIcon(getClass().getResource("done.png"));
28
      this.setIconImage(icon.getImage());
29
      //---- Set Frame Background Color -----
     container = this.getContentPane();
31
       container.setBackground(Color.ORANGE);
32 //
33
34
     //---- Set Custom Background Color -----
35
      Color bgColor = Color.decode("#e6e6fa");
     container.setBackground(bgColor);
36
37
38
39
40 class JFrameExample{
41
42
   public static void main(String[] args) {
    MakeFrame frame = new MakeFrame();
43
    frame.setLocationRelativeTo(null);
45
46 }
```

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1.4 JLabel

1.4.1 Basic JLabel

```
package SwingTwo;
3 import java.awt.Color;
4 import java.awt.Container;
5 import javax.swing.ImageIcon;
6 import javax.swing.JFrame;
7 import javax.swing.JLabel;
9 public class JLabelDemo extends JFrame {
   private static final long serialVersionUID = 1L;
11
12
   private ImageIcon icon = null;
13
   private Container container = null;
    private JLabel userLabel = null, passLabel = null;
15
16
17
   JLabelDemo() {
     decorateFrame();
18
19
20
    public void decorateFrame() {
21
23
      container = this.getContentPane();
24
      container.setLayout(null);
25
26
      icon = new ImageIcon(getClass().getResource("user_Icon.png"));
      this.setIconImage(icon.getImage());
27
28
      Color bgColor = Color.decode("#e2fbfa");
29
      container.setBackground(bgColor);
30
31
32
      this.setVisible(true);
33
      this.setTitle("JLabel Demo");
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
34
      this.setSize(500,350);
35
36
      this.setLocationRelativeTo(null);
37
      userLabel = new JLabel();
      userLabel.setBounds(50,30,100,30);
39
      userLabel.setText("User Name: ");
40
41
      container.add(userLabel);
42
43
      passLabel = new JLabel("Password: ");
      passLabel.setBounds(50,60,100,30);
44
      container.add(passLabel);
45
46
47
```

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```
49  public static void main(String[] args) {
50    JLabelDemo frame = new JLabelDemo();
51  }
52
53 }
```

1.4.2 JLabel Font Style

class MakeFrame extends JFrame {
 private static final long serialVersionUID = 1L;

private Container container = null;
 private Font robotoFont = null, tnrFont=null;
 private JLabel title = null, userName = null;

MakeFrame() {
 frameDecoration();
 }

public void frameDecoration() {

```
11
12
     container = this.getContentPane();
14
15
     container.setLayout(null);
16
     this.setVisible(true);
     this.setTitle("JLable Font Style");
18
     this.setDefaultCloseOperation(EXIT_ON_CLOSE);
19
20
     this.setSize(500,500);
21
     this.setLocationRelativeTo(null);
22
     //---- Define Font Style
23
     robotoFont = new Font("Roboto", Font.BOLD, 32);
24
     tnrFont = new Font("Times New Roman", Font.PLAIN, 20);
25
26
     title = new JLabel("User Info");
27
     title.setBounds(200, 50, 100, 30); // x,y,with,height
28
29
     title.setForeground(Color.RED); // Change Foreground Color
30
     title.setOpaque(true); // Enable to change Background Color
31
     32
     33
34
     userName = new JLabel("User Name: ");
35
     userName.setFont(tnrFont);
     userName.setBounds(100,100,100,30);
37
     container.add(userName);
38
39
40
41
```

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1.4.3 Set Tip Text

```
1 class MakeFrame extends JFrame {
   private static final long serialVersionUID = 1L;
   private Container container = null;
   private Font robotoFont = null;
   private JLabel title = null;
   MakeFrame() {
     frameDecoration();
10
11
    public void frameDecoration() {
12
13
      container = this.getContentPane();
14
15
      container.setLayout(null);
16
      this.setVisible(true);
17
      this.setTitle("JLable Font Style");
18
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
19
      this.setSize(500,500);
      this.setLocationRelativeTo(null);
21
22
      //---- Define Font Style
23
24
      robotoFont = new Font("Roboto", Font.BOLD, 20);
25
      title = new JLabel("User Info");
26
      title.setToolTipText("Title");
                                         // Tool tip
      title.setBounds(200, 50, 100, 30);
28
      title.setFont(robotoFont);
29
      title.setForeground(Color.RED);
30
      title.setOpaque(true);
31
     title.setBackground(Color.BLUE);
33
      container.add(title);
35
36 }
```

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1.4.4 Image Label

```
Image Label
                                                                                         1 class MakeFramee extends JFrame {
   private static final long serialVersionUID = 1L;
   private Container container = null;
   public JLabel imgLabel = null;
   private ImageIcon icon = null;
   private Image img = null;
   MakeFramee(){
    decorateFrame();
10
11
12
   public void decorateFrame() {
13
14
     container = this.getContentPane();
15
     container.setLayout(null);
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
18
19
20
     //---- Set Image Label
      icon = new ImageIcon(getClass().getResource("user_Icon.png"));
21
     img = icon.getImage();
     img = img.getScaledInstance(100, 100, Image.SCALE_SMOOTH); // Resize Image
23
     24
25
     imgLabel.setBounds(100,100,200,200);
26
27
     imgLabel.setOpaque(true);
      imgLabel.setBackground(Color.cyan);
28
29
     30
31 }
32
33 public class ImageLabel {
34
35
   public static void main(String[] args) {
    MakeFramee frame = new MakeFramee();
36
37
    frame.setVisible(true);
    frame.setTitle("Image Label");
38
     frame.setBounds(100,50,500,500);
39
      frame.setLocationRelativeTo(null);
40
41
   }
42
43 }
```

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1.4.5 Text Field Text Field 1 class MKFrame extends JFrame { private static final long serialVersionUID = 1L; Abc abc private Container container = null; private JTextField textField = null; MKFrame() { decorateFrame(); 10 11 public void decorateFrame() { container = this.getContentPane(); 12 container.setLayout(null); 13 14 this.setTitle("Text Field"); 15 this.setSize(300,300); this.setLocationRelativeTo(null); this.setDefaultCloseOperation(EXIT_ON_CLOSE); 18 19 font = new Font("Times New Roman", Font.BOLD + Font.ITALIC, 18); 20 21 textField = new JTextField(); 22 23 textField.setFont(font); 24 textField.setBounds(50,50,150,50); 25 textField.setBackground(Color.cyan); textField.setForeground(Color.blue); 26 27 textField.setHorizontalAlignment(JTextField.CENTER); // Writing start form center 28 29 container.add(textField); 30 31 } 32 33 public class TextField { 34 35 public static void main(String[] args) { 36 37 MKFrame frame = new MKFrame(); frame.setVisible(true); 38 39 40 41 42 }

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1.5 Event Listener

1.5.1 Read text form text field and show in messageDialoug()

```
Event Listener
1 class MKFrame extends JFrame {
   private static final long serialVersionUID = 1L;
   private Container container = null;
                                                                   Done
    private JTextField textField = null;
    MKFrame() {
                                                                         Message
     actionListener();
                                                                              abc ABC
10
                                                                                    OK
    public void actionListener() {
11
      container = this.getContentPane();
12
      container.setLayout(null);
13
      this.setTitle("Event Listener");
15
      this.setSize(300,300);
      this.setLocationRelativeTo(null);
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
18
19
      textField = new JTextField();
20
      textField.setBounds(50,50,150,50);
21
22
      container.add(textField);
23
24
25
      //---- Event Listener
26
      textField.addActionListener(new ActionListener() {
        public void actionPerformed(ActionEvent e) {
27
          String msg = textField.getText(); // Get message from textField
          29
         if(!(msq.isEmpty())) {
30
31
           JOptionPane.showMessageDialog(null, msg);
          } else {
32
33
           JOptionPane.showMessageDialog(null, "Empty Message !");
34
35
36
      });
37
38
39
40 public class TextField {
   public static void main(String[] args) {
41
     MKFrame frame = new MKFrame();
43
44
      frame.setVisible(true);
45
46
```

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1.5.2 Perform EventListener for JTextField and Show Message Using showMessage-Dialog

.

```
1 class MakeFrame extends JFrame {
   private static final long serialVersionUID = 1L;
   private Container container = null;
    private JLabel heading = null;
    private JTextField nameField = null, IdField = null;
    private Font font = null;
    MakeFrame(int width, int height) {
     this.setTitle("Event Listener");
10
      this.setSize(width, height);
11
     this.setLocationRelativeTo(null);
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
14
      frameActions();
15
16
17
    public void frameActions() {
      container = this.getContentPane();
18
      container.setLayout(null);
20
      font = new Font("Times New Roman", Font.BOLD, 20);
23
      // Crate and add JLabel to the container
24
      heading = new JLabel("Name and ID");
      heading.setFont(font);
25
      heading.setBounds(160,50,150,30);
      container.add(heading);
28
29
      font = new Font("Times New Roman", Font.PLAIN, 16);
30
31
      // Configure and add JTextField to the Container
      nameField = new JTextField();
32
      nameField.setBounds(100,100,300,30);
33
      nameField.setFont(font);
34
      container.add(nameField);
35
36
      IdField = new JTextField();
37
      IdField.setBounds(100,150,300,30);
38
      IdField.setFont(font);
30
40
      container.add(IdField);
41
      // Instantiate EventHandler Class and pass the JTextFields as parameter
42
43
      EventHandler eventHandler = new EventHandler(nameField, IdField);
44
      nameField.addActionListener(eventHandler);
      IdField.addActionListener(eventHandler);
46
47
48
49
```

```
50 // Implements the ActionListner interface
  class EventHandler implements ActionListener {
52
53
    private JTextField nameField = null, idField = null;
54
55
    EventHandler(JTextField name, JTextField Id) {
      nameField = name;
56
      idField = Id;
57
58
59
    public void actionPerformed(ActionEvent e) {
61
      String str = null;
62
      if (e.getSource() == nameField) {
        str = nameField.getText();
63
        if(str.isEmpty()) {
64
           JOptionPane.showMessageDialog(null, "Empty Name Field", "Name Field", JOptionPane.
      WARNING_MESSAGE);
        } else {
66
           JOptionPane.showMessageDialog(null, str,"Name Field", JOptionPane.PLAIN_MESSAGE);
67
68
69
       } else {
        str = idField.getText();
70
71
        if(str.isEmpty()) {
          JOptionPane.showMessageDialog(null, "Empty Id Field","Id Field",JOptionPane.
72
      WARNING_MESSAGE);
        } else {
           JOptionPane.showMessageDialog(null, str, "Id Field", JOptionPane.PLAIN_MESSAGE);
74
75
76
77
                                                                 Event Listener
78
  public class EventListener1 {
80
                                                                               Name and ID
81
82
    public static void main(String[] args) {
      MakeFrame frame = new MakeFrame(500,500);
83
                                                                          53482983
      frame.setVisible(true);
    }
85
                                                                            ld Field
86
87 }
                                                                            53482983
                                                                                     ОК
```

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1.5.3 Password Field

1 class CreatFrame extends JFrame{ private static final long serialVersionUID = 1L; Password Field X private Container container = null; private JPasswordField passField = null; Enter Password CreatFrame() { ********** this.setTitle("Password Field"); this.setSize(500,500); this.setDefaultCloseOperation(EXIT_ON_CLOSE); 10 11 this.setLocationRelativeTo(null); frameActions(); 12 13 14 public void frameActions() { 15 container = this.getContentPane(); container.setLayout(null); 18 JLabel label = new JLabel("Enter Password"); 19 label.setBounds(100,100,200,30); 20 container.add(label); 21 passField = new JPasswordField(); 23 24 passField.setBounds(100,130,200,30); 25 passField.setEchoChar('#'); container.add(passField); 26 27 28 29 31 public class PasswordField { public static void main(String[] args) { 33 CreatFrame frame = new CreatFrame(); 34 frame.setVisible(true); 35 36 }

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1.5.4 Button Field

1 class BuildFrame extends JFrame { private static final long serialVersionUID = 1L; Button Field private Container container = null; private JButton button = null; BuildFrame () { this.setTitle("Button Field"); this.setSize(500,500); this.setLocationRelativeTo(null); 10 11 frameActions(); 12 13 public void frameActions() { 14 container = this.getContentPane(); 15 container.setLayout(null); 17 button = new JButton("Submit"); 18 button.setSize(100,50); 19 button.setLocation(200,200); 20 container.add(button); 21 22 23 } 24 25 public class ButtonField { 26 public static void main(String[] args) { 27 28 29 BuildFrame frame = new BuildFrame(); frame.setVisible(true); 31 32 }

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1.6 Drawing Shapes

```
1 DrawingPanel() {
      this.setTitle("Drawing Shapes");
      this.setSize(500,500);
      this.setLocationRelativeTo(null);
      this.setDefaultCloseOperation(EXIT_ON_CLOSE);
      JPanel drawintPanel = new JPanel() {
        public void paintComponent(Graphics g) {
          Graphics2D g2 = (Graphics2D) g;
10
11
12
          //Rectangle2D.Double(x,y,width,height);
          Shape rect = new Rectangle2D.Double(100,100,300,250);
          g2.setColor(Color.GREEN);
14
          g2.fill(rect);
15
16
          // Ellipse2D.Double(x,y,width,height);
17
          Shape circle = new Ellipse2D.Double(110,50,100,100);
18
          g2.setColor(Color.blue);
19
20
          g2.fill(circle);
21
          // Draw line form (x1,y2) to (x2,y2)
          Shape line = new Line2D.Double(130,25,130,300);
23
          g2.setStroke(new BasicStroke(10));
24
25
          g2.setColor(Color.red);
          g2.draw(line);
26
                                                                 Drawing Shapes
27
      };
28
29
      this.getContentPane().add(drawintPanel);
30
      this.setVisible(true);
31
32
33 }
35 public class DrawingApp {
    public static void main(String[] args) {
      DrawingPanel frame = new DrawingPanel();
38
```

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Chapter 2

Latex Ticks

2.1 Figure Overlap On The Plain Text

```
1 class MakeFramee extends JFrame {
  private Container container = null;
   public JLabel imgLabel = null;
  private ImageIcon icon = null;
   private Image img = null;
   MakeFramee(){
   decorateFrame();
10
11
   public void decorateFrame() {
12
13
     container = this.getContentPane();
14
     container.setLayout(null);
15
     this.setDefaultCloseOperation(EXIT_ON_CLOSE);
17
18
     //---- Set Image Label
19
     icon = new ImageIcon(getClass().getResource("user_Icon.png"));
20
21
     img = icon.getImage();
     img = img.getScaledInstance(100, 100, Image.SCALE_SMOOTH); // Resize Image
22
    imgLabel = new JLabel(icon);
                                 // Instantiate image Label
24
     imgLabel.setBounds(100,100,200,200);
25
     imgLabel.setOpaque(true);
27
    imgLabel.setBackground(Color.cyan);
     29
```

Image Label

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2.2 More Control over the Figure

1 DrawingPanel() { this.setTitle("Drawing Shapes"); this.setSize(500,500); this.setLocationRelativeTo(null); this.setDefaultCloseOperation(EXIT_ON_CLOSE); JPanel drawintPanel = new JPanel() { public void paintComponent(Graphics g) { Graphics2D g2 = (Graphics2D) g;10 11 12 //Rectangle2D.Double(x,y,width,height); Shape rect = new Rectangle2D.Double(100,100,300,250); g2.setColor(Color.GREEN); 14 g2.fill(rect); 15 16 // Ellipse2D.Double(x,y,width,height); 17 Shape circle = new Ellipse2D.Double(110,50,100,100); 18 g2.setColor(Color.blue); 19 20 g2.fill(circle); // Draw line form (x1,y2) to (x2,y2)Shape line = new Line2D.Double(130,25,130,300); 23 Drawing Shapes g2.setStroke(new BasicStroke(10)); 24 25 g2.setColor(Color.red); g2.draw(line); 26 }; 28 29 this.getContentPane().add(drawintPanel); 30 this.setVisible(true); 31 32 33 } 35 public class DrawingApp { public static void main(String[] args) { DrawingPanel frame = new DrawingPanel(); 38

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