



Sri
SAI RAM
ENGINEERING COLLEGE
INSTITUTE OF TECHNOLOGY
West Tambaram, Chennai - 44

SAIRAM
DIGITAL RESOURCES



CS8392

OBJECT ORIENTED PROGRAMMING
(Common to CSE, EEE, EIE, ICE, IT)

Sairam
INSTITUTIONS



UNIT NO 5

EVENT DRIVEN PROGRAMMING

5.7 Swing Components --Text Fields, Text Areas,
Buttons

COMPUTER SCIENCE & ENGINEERING



Swing Components

Text Fields

The object of a JTextField class is a text component that allows the editing of a single line text. It inherits JTextComponent class.

JTextField class declaration

```
public class JTextField extends JTextComponent implements SwingConstants
```

JTextField() - Creates a new TextField

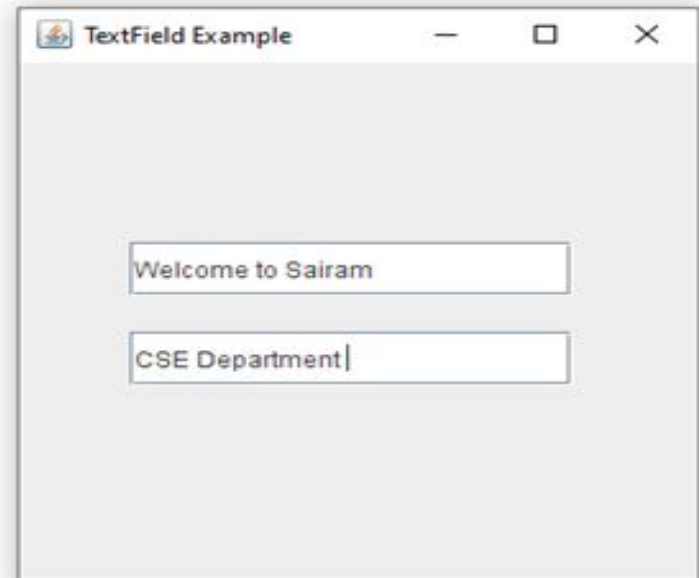
JTextField(String text) - Creates a new TextField initialized with the specified text.

JTextField(String text, int columns) - Creates a new TextField initialized with the specified text and columns.

JTextField(int columns) - Creates a new empty TextField with the specified number of columns.

Swing Components - Text Fields

```
import javax.swing.*;  
  
class TextFieldExample  
{  
    public static void main(String args[])  
    {  
        JFrame f= new JFrame("TextField Example");  
        JTextField t1,t2;  
        t1=new JTextField("Welcome to Sairam");  
        t1.setBounds(50,100, 200,30);  
        t2=new JTextField();  
        t2.setBounds(50,150, 200,30);  
        f.add(t1); f.add(t2);  
        f.setSize(400,400);  
        f.setLayout(null);  
        f.setVisible(true);  
    }  
}
```



Swing Components - Text Areas

Text Areas

The object of a JTextArea class is a multi line region that displays text. It allows the editing of multiple line text. It inherits JTextComponent class

JTextArea class declaration

```
public class JTextArea extends JTextComponent
```

JTextArea()

- Creates a text area that displays no text initially.

JTextField(String text)

- Creates a text area that displays specified text initially.

JTextArea(int row, int columns) - Creates a new TextArea initialized with the specified number of rows and columns.

JTextArea(String s, int row, int columns) - Creates a text area with the specified number of rows and columns that displays specified text.

Swing Components - Text Areas

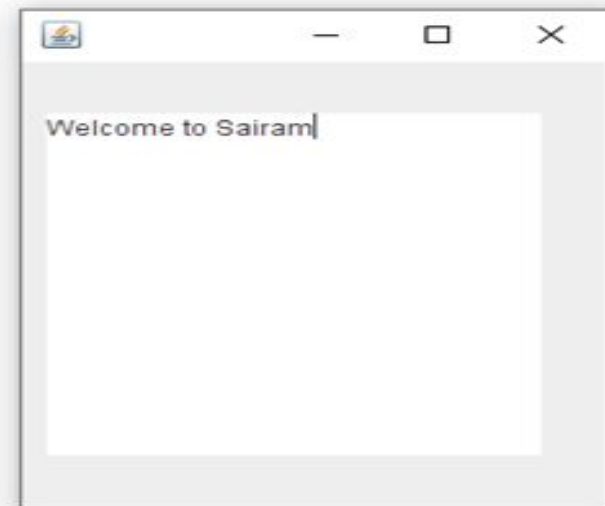
```
import javax.swing.*;
```

```
public class TextAreaExample
```

```
{  
    TextAreaExample(){  
        JFrame f= new JFrame();  
        JTextArea area=new JTextArea();  
        area.setBounds(10,30, 200,200);  
        f.add(area);  
        f.setSize(300,300);  
        f.setLayout(null);  
        f.setVisible(true);  
    }  
}
```

```
public static void main(String args[])
```

```
{  
    new TextAreaExample();  
}
```



Swing Components - JButton

JButton

The JButton class is used to create a labeled button that has platform independent implementation. The application result in some action when the button is pushed. It inherits AbstractButton class.

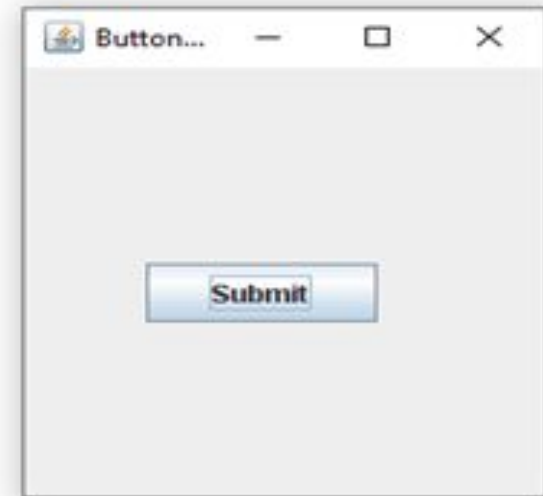
JButton class declaration

public class JButton **extends** AbstractButton **implements** Accessible

- JButton()** - It creates a button with no text and icon.
- JButton(String s)** - It creates a button with the specified text.
- JButton(Icon i)** - It creates a button with the specified icon object.

Swing Components - Text Areas

```
import javax.swing.*;  
  
public class ButtonExample {  
  
    public static void main(String[] args) {  
        JFrame f=new JFrame("Button Example");  
        JButton b=new JButton("Submit");  
        b.setBounds(50,100,95,30);  
        f.add(b);  
        f.setSize(400,400);  
        f.setLayout(null);  
        f.setVisible(true);  
    }  
}
```



Swing Components

[JTextField and Action, Focus, Document listener](#)

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