

## 15.6.2 Button

Button class is used to create pushbutton or command button. A Button is the most common GUI control that lets you click on it do some action. You might already have seen it a lot of times, in **OK** and **Cancel** buttons.

Constructors of button class are :

Constructor	Description
Button ( )	Constructs a Button with no label
Button (string str)	Constructs a Button with the specified label str

Methods of button Class are :

Methods	Description
setLabel(String str)	To Add or Change the Label of button. with text str.
getLabel( )	To Obtain the label of the Button

### Example

This program illustrates how to add buttons in a frame.

```
import java.awt.*;
class demobutton extends Frame
{
    public static void main(String args[ ])
    {
        Button b1=new Button("First Button");
        Button b2=new Button("Second Button");
        Button b3=new Button("Third Button");
        demobutton f1 = new demobutton(); //Create a frame
        f1.setTitle("Adding buttons in a Frame"); //Set title of frame
        f1.setLayout(new FlowLayout()); // Set a layout manager
        f1.add(b1); //adding a component (button) to the frame
        f1.add(b2);
        f1.add(b3);
        f1.setSize(600, 300); //set size of frame
        f1.setVisible(true);
    }
}
```

Output :

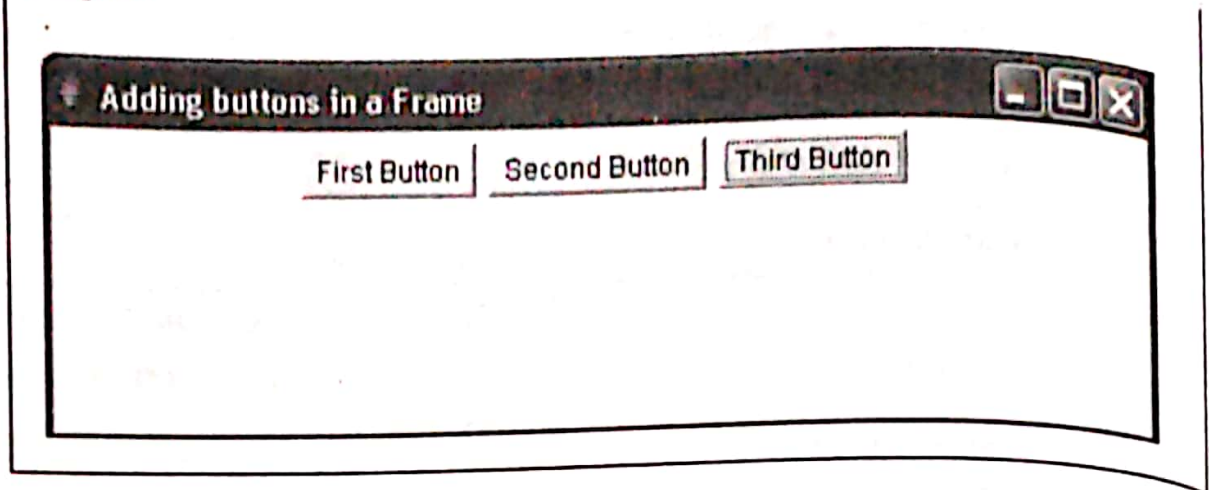


FIGURE 15.8

In this example, **FlowLayout** is a layout manager and it is used to arrange the components in a row. The **setLayout()** method is used to set a new layout manager.

### 15.6.3 TextField

TextField provides an area where user can enter and edit a single line of text. TextFields are generally used for getting text input from a user. It can be created with any of the following constructors.

Constructor	Description
TextField ( )	To Create an empty text field
TextField (string str)	To Create a text field with the specified string
TextField (string str, int size)	To Create a text field with specified string and specified size (width)

Methods of TextField Class are :

Methods	Description
getText( )	To Return the text that the TextField contain
setText (String str)	To Put the given String into the field
setColumns ( )	To Return the width of TextField
selectAll ( )	To Select all the Text in the Field
isEditable( )	Return True or False based on the Text is editable
setEditable (boolean)	True enabled text to be edited, False Freeze the Text.



### Example

This program illustrates how to add text field in a frame.

```
import java.awt.*;
class demotextfield extends Frame
{
    public static void main(String args[ ])
    {
        TextField t1=new TextField("Enter the Name");
        TextField t2=new TextField("Enter the Father's Name");
        demotextfield f1 = new demotextfield(); //Create a frame
        f1.setTitle("Adding Text Field in Frame"); //Set title of frame
        f1.setLayout(new FlowLayout());
        f1.add(t1); //adding a component to the frame
        f1.add(t2);
        f1.setSize(200, 100); //set size of frame
        f1.setVisible(true);
    }
}
```

**Output :**

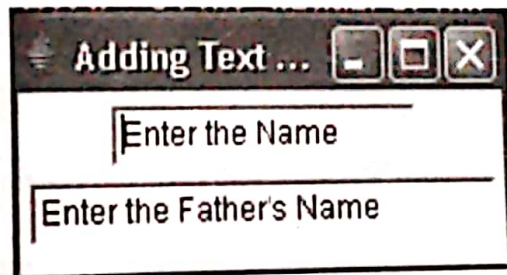


FIGURE 15.9

### 15.6.4 TextArea

TextArea component is useful for getting a large data from the user. TextArea is similar as TextField but there is multiple line input. A TextArea is a multi-line area that displays text. As it contains multiple rows and columns, therefore, it can contain scrollbars. It can be set to allow editing text or read only modes.

**Constructors of TextArea class are :**

Constructor	Description
TextArea( )	Creates an empty Text Area
TextArea(int rows, int cols)	Creates a TextArea with specified rows and columns or width
TextArea (String str)	Creates a TextArea with string str
TextArea (String str, int rows, int cols)	Creates a TextArea with string str, specified rows and columns

**Methods of TextArea Class are :**

Methods	Description
setText(String s)	To Set the text of the TextArea
getText( )	To Retrieve the text of a TextArea
setEditable(boolean)	True enabled text to be edited, False Freeze the Text
isEditable( )	Return True or False based on the Text is editable

### Example

This program illustrates how to add text area in a frame.

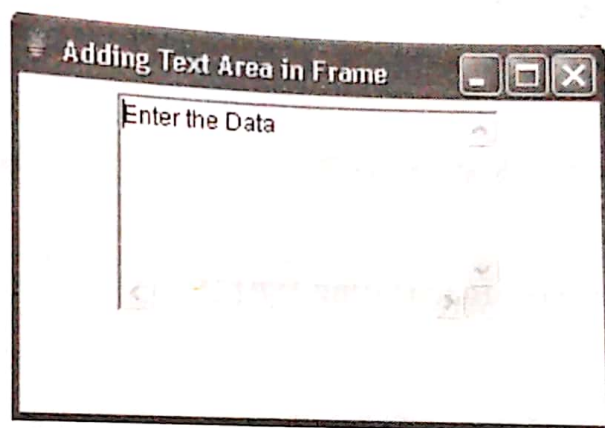
```

import java.awt.*;
class demotextarea extends Frame
{
    public static void main(String args[ ])
    {
        TextArea t1=new TextArea("Enter the Data" , 6,25);

        demotextarea f1 = new demotextarea(); //Create a frame
        f1.setTitle("Adding Text Area in Frame");//Set title of frame
        f1.setLayout(new FlowLayout());
        f1.add(t1); //adding a component to the frame
        f1.setSize(300, 200); //set size of frame
        f1.setVisible(true);
    }
}

```

**Output :**



**FIGURE 15.10**