

Practical Sheet

Submitted By:- Utsav Acharya Sharma

Program No:- 1

Submitted To Debesh Achikari

Lab Date:- 2080/06/12

Submission Date:- 2080/06/23

T.U.Roll.No. :- 24779

Title: Creating button text field and radio button using setBounds() method.

Introduction:

The `setBounds()` method is used to set the size and position of a graphical component, such as a 'JButton', 'JTextField' or any other swing component. The `setBounds()` method takes four parameters: x-coordinate, y-coordinate, width and height.

Some of the components in Java Swing:

- Text field: A text field is a GUI component that allows the user to input a single line of text.
- Button: A button is a common GUI component used to trigger actions when clicked.
- Label: A label is a non-editable text component used to display a descriptive text or image.
- Radio Button: A radio button is a graphical component that allows the user to select one option from a group of options.

Code:

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

```
public class setbound {
```

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

```
        JFrame frame = new JFrame("set bound method");
```

```
        frame.setSize(375, 250);
```

```
        frame.setLayout(null);
```

```
        JButton button = new JButton("hello");
```

```
        button.setBounds(80, 30, 120, 40);
```

```
        frame.add(button);
```

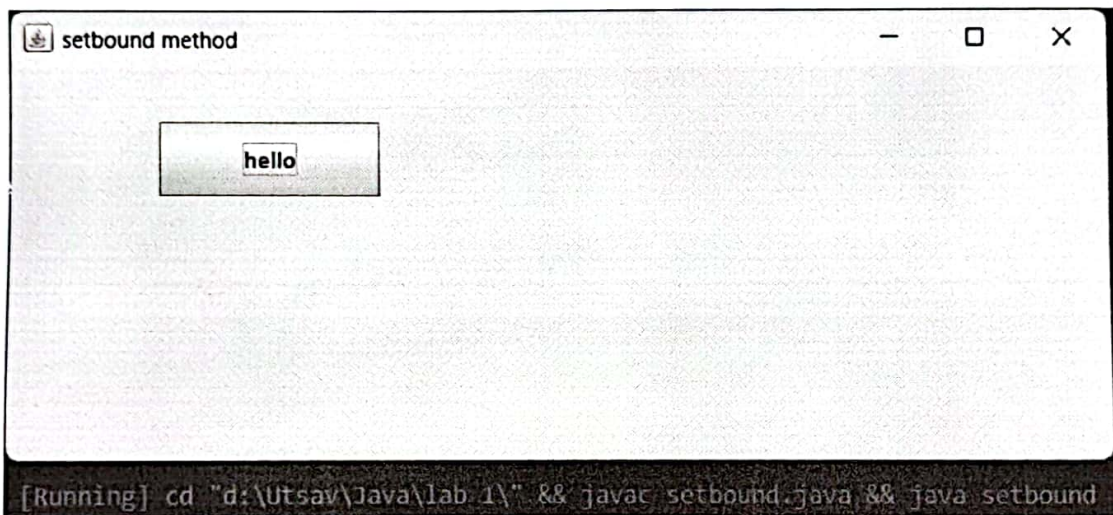
```
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
        frame.setLocationRelativeTo(null);
```

```
        frame.setVisible(true);
```

```
    }
```

```
}
```



Code:

```
import javax.swing.*;  
public class Field {  
    public static void main(String arg[]) {  
        JFrame frame = new JFrame("SetBounds Method Test");  
        frame.setSize(375, 250);  
        frame.setLayout(null);  
  
        //creating textfield and radio button  
        JTextField textField = new JTextField(null, null, 0);  
        JRadioButton r1Button = new JRadioButton("A) Male");  
        JRadioButton r2Button = new JRadioButton("B) Female");  
        ButtonGroup bGroup = new ButtonGroup();  
        bGroup.add(r1Button);  
        bGroup.add(r2Button);  
  
        //setting positions and sizes  
        textField.setBounds(40, 60, 150, 20);  
        r1Button.setBounds(40, 90, 100, 20);  
        r2Button.setBounds(40, 110, 100, 20);  
        JButton button = new JButton("Submit");  
        button.setBounds(100, 140, 100, 40);  
  
        //adding components to the frame  
        frame.add(textField);  
        frame.add(r1Button);  
        frame.add(r2Button);  
        frame.add(button);  
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
        frame.setLocationRelativeTo(null);  
        frame.setVisible(true);  
    }  
}
```

SetBounds Method Test

Utsav

☒ A) Male

☐ B) Female

Submit

[Running] cd "d:\Utsav\Java\lab 1\" && javac field.java && java field

Code:

```
import javax.swing.*;
import javax.swing.event.ChangeEvent;
import javax.swing.event.ChangeListener;
public class work {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Swing Components Example");
        frame.setSize(400, 400);
        frame.setLayout(null);

        JTextField textField = new JTextField();
        textField.setBounds(40, 20, 150, 20);

        JPasswordField passwordField = new JPasswordField();
        passwordField.setBounds(40, 50, 150, 20);

        JCheckBox checkBox = new JCheckBox("Accept Terms and
        checkBox.setBounds(40, 80, 200, 20);           Conditions");

        String[] options = {"Male", "Female"};
        JComboBox<String> comboBox = new JComboBox<>(options);
        comboBox.setBounds(40, 110, 150, 20);

        JSlider slider = new JSlider(JSlider.HORIZONTAL, 0, 100,
                                     50);
        slider.setBounds(40, 140, 150, 20);
        slider.addChangeListener(new ChangeListener() {
            @Override
            public void stateChanged(ChangeEvent e) {
                //Handle slider value here
            }
        });
    }
}
```

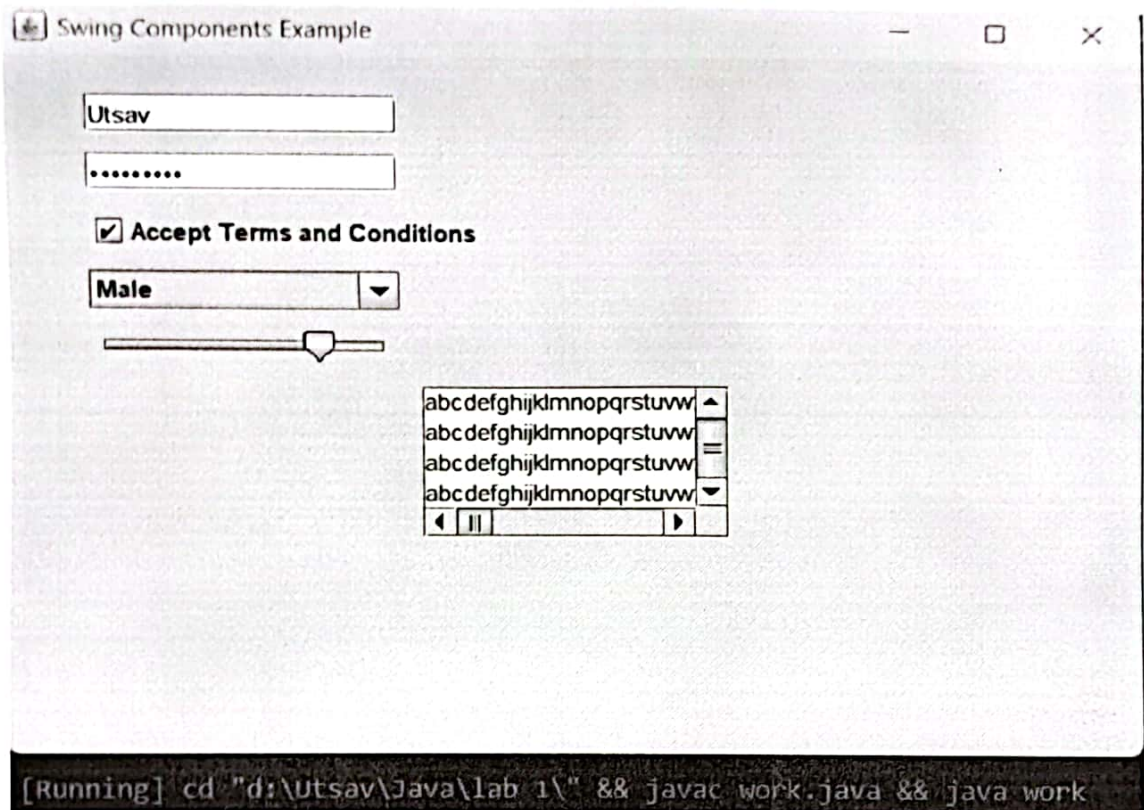
```
JTextArea textArea = new JTextArea();
textArea.setBounds(40, 170, 180, 80);
JScrollPane scrollPane = new JScrollPane(textArea);
scrollPane.setBounds(200, 170, 180, 80);

frame.add(textField);
frame.add(passwordField);
frame.add(checkBox);
frame.add(comboBox);
frame.add(slider);
frame.add(scrollPane);

frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
frame.setLocationRelativeTo(null);
frame.setVisible(true);
```

}

}



```
[Running] cd "d:\Utsav\Java\lab 1\" && javac work.java && java work
```