

### การทดลองที่ 7-1

```
// File Name : Lab7_1.java
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Lab7_1 extends JFrame{
    JLabel numberLabel, resultLabel;
    JTextField numberField;
    JTextArea resultArea;

    public Lab7_1() {
        // title bar in window
        super("Program display value n");
        // obtain content pane and set its layout to FlowLayout
        Container container = getContentPane();
        container.setLayout( new FlowLayout() );
        // create numberLabel and attach it to content pane
        numberLabel = new JLabel("Enter integer and press Enter");
        container.add( numberLabel );
        // create numberField and attach it to content pane
        numberField = new JTextField( 10 );
        container.add( numberField );
        // register this applet as numberField's ActionListener
        numberField.addActionListener(
            // create inner class
            new ActionListener() {
                public void actionPerformed((ActionEvent event) )
                {
                    int number, sumValue;
                    String blank5 = "    ";
                    number = Integer.parseInt( numberField.getText() );
                    // clear value in TextArea
                    resultArea.setText("");
                    // add data in textarea
                    for (int n = 1 ; n <= number ; n++) {
                        resultArea.append( blank5 + Integer.toString(n));
                        if (n % 5 == 0) resultArea.append("\n");
                    }
                    // clear value in numberField
                    numberField.setText("");
                } // end method actionPerformed
            }
        );

        // create display
        resultArea = new JTextArea( 10,20 );
        resultArea.setEditable( false );
        container.add( resultArea );
    }
}
```

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This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Program display valuen

Enter an integer and press Enter : 100

Enter integer umber of blank : 10

56	57	58
61	62	63
66	67	68
71	72	73
76	77	78
81	82	83
86	87	88
91	92	93
96	97	98

## การทดลองที่ 7-2

```
// File Name : Lab7_2.java
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Lab7_2 implements ActionListener {
    JLabel salaryLabel, taxLabel, resultLabel;
    JTextField salaryField, taxField, resultField;
    JButton btnCalculate, btnExit;
    JFrame window;

    /** Creates a new instance of Test5_15 */
    public Lab7_2() {
        // obtain content pane and set its layout to FlowLayout
        window = new JFrame("Programm Calculate Tax");
        Container container = window.getContentPane();
        container.setLayout( new FlowLayout() );

        // create numberLabel and attach it to content pane
        salaryLabel = new JLabel( "Enter salary employee : " );
        container.add( salaryLabel );
        salaryField = new JTextField( 10 );
        container.add( salaryField );

        taxLabel = new JLabel( "      Result Tax of salary : " );
        container.add( taxLabel );
        taxField = new JTextField( 10 );
        taxField.setEditable( false );
        container.add( taxField );

        resultLabel = new JLabel( "                Result Net Salary : " );
        container.add( resultLabel );
        resultField = new JTextField( 10 );
        resultField.setEditable( false );
        container.add( resultField );

        btnCalculate = new JButton(" Calculate ");
        btnCalculate.addActionListener( this);
        container.add( btnCalculate );

        btnExit = new JButton("      Exit      ");
        btnExit.addActionListener( this);
        container.add( btnExit );

        window.setSize( 300,150);
        window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        window.setVisible(true);
    }

    public void actionPerformed((ActionEvent event) )
    {
        double salary = Double.parseDouble(salaryField.getText()) ;
    }
}
```

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### การทดลองที่ 7-3

```
// File Name : Lab7_3.java
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class Lab7_3 implements ActionListener {
    JLabel numberLabel;
    JTextField numberField;
    JButton btn1, btn2, btn3;
    JFrame window;

    public Lab7_3() {

        // obtain content pane and set its layout to FlowLayout
        window = new JFrame("Programm Show Text");
        Container container = window.getContentPane();
        container.setLayout( new FlowLayout() );

        // create numberLabel and attach it to content pane
        numberLabel = new JLabel( "Show Number : " );
        container.add( numberLabel );
        numberField = new JTextField( 10 );
        //numberField.setEditable( false );
        container.add( numberField );

        btn1 = new JButton(" 1 ");
        btn1.addActionListener( this);
        container.add( btn1 );
        btn2 = new JButton(" 2 ");
        btn2.addActionListener( this);
        container.add( btn2 );
        btn3 = new JButton(" 3 ");
        btn3.addActionListener( this);
        container.add( btn3 );

        window.setSize( 240,120);
        window.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        window.setVisible(true);
    }

    public void actionPerformed((ActionEvent event) )
    {
        String str = numberField.getText();

        if (event.getSource() == btn1) {
            str += "1";
            numberField.setText( str );
        }
        else if (event.getSource() == btn2) {
            str += "2";
            numberField.setText( str );
        }
    }
}
```

```
    }
    else if (event.getSource() == btn3) {
        str += "3";
        numberField.setText( str );
    }
} // end method actionPerformed

public static void main(String[] args) {
    Lab7_3 gui = new Lab7_3();
}

}
```

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