EVENT HANDELING 12

```java
import javax.swing.JFrame;

import javax.swing.JButton;

import java.awt.FlowLayout;

import java.awt.event.ActionListener;

import java.awt.event.ActionEvent;

class GUI

{

    JFrame frame;

    JButton ok,cancel,exit;

    public GUI()

    {

        frame = new JFrame();

        ok = new JButton("OK");

        cancel = new JButton("CANCEL");

        exit = new JButton("EXIT");

        frame.setLayout(new FlowLayout());

        frame.add(ok);

        frame.add(cancel);

        frame.add(exit);

        frame.setVisible(true);

        frame.setSize(300,300);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        ok.addActionListener(new ActionListener()

        {
```

```java
    public void actionPerformed(ActionEvent ae)

    {

    System.out.println("You have clicked the OK button");

    }

}

);

cancel.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

    System.out.println("You have clicked the CANCEL button");

}

}

);

exit.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

System.exit(0);

}

}

);
```

EVENT HANDELING 13

```java
import javax.swing.JFrame;

import javax.swing.JButton;

import javax.swing.JLabel;

import javax.swing.JTextField;

import java.awt.FlowLayout;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

class GUI

{

    JFrame frame;

    JButton btnPlus, btnMul;

    JLabel firstOperand, secondOperand,answer;

    JTextField firstNumber, secondNumber, result;

    String val;

    int num1, num2, res;

public GUI()

{

    frame = new JFrame();

    btnPlus = new JButton("+");

    btnMul = new JButton("X");

    firstOperand = new JLabel("First Operand");

    secondOperand = new JLabel("Second Operand");

    answer = new JLabel("Answer");

    firstNumber = new JTextField(10);
```

```java
secondNumber = new JTextField(10);

result = new JTextField(10);

frame.setLayout(new FlowLayout());

frame.add(firstOperand);

frame.add(firstNumber);

frame.add(secondOperand);

frame.add(secondNumber);

frame.add(btnPlus);

frame.add(btnMul);

frame.add(answer);

frame.add(result);

frame.setVisible(true);

frame.setSize(115,250);

frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

btnPlus.addActionListener(new ActionListener()

{

public void actionPerformed(ActionEvent ae)

{

val = firstNumber.getText();

num1 = Integer.parseInt(val);

val = secondNumber.getText();

num2 = Integer.parseInt(val);

res = num1 + num2;

result.setText(res+"");

}
```

```java
        }
        );

        btnMul.addActionListener(new ActionListener()
        {
        public void actionPerformed(ActionEvent ae)
        {
        val = firstNumber.getText();
        num1 = Integer.parseInt(val);
        val = secondNumber.getText();
        num2 = Integer.parseInt(val);
        res = num1 * num2;
        result.setText(res+"");
     }}}
```

EVENT HANDELING 14

```java
import javax.swing.JFrame;
import javax.swing.JLabel;
import java.awt.FlowLayout;
import java.awt.event.MouseMotionListener;
import java.awt.event.MouseEvent;
import java.awt.event.MouseMotionAdapter;
class GUI
{
    JFrame frame;
```

```java
    JLabel label;

    int x, y;

    public GUI()

    {

        frame = new JFrame();

        label = new JLabel("Move mouse on the frame");

        frame.setLayout(new FlowLayout());

        frame.add(label);

        frame.setVisible(true);

        frame.setSize(400,400);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.addMouseMotionListener(new MouseMotionAdapter()

        {

        public void mouseMoved(MouseEvent e)

        {

        x = e.getX();

        y = e.getY();

        label.setText(x + " , " + y);

        }}}
```

EVENT HANDELING 15

```java
import java.awt.event.WindowAdapter;

import javax.swing.JFrame;

import java.awt.event.WindowEvent;
```

```java
import javax.swing.JOptionPane;

class GUI
{
    JFrame frame;

    public GUI()
    {
        frame = new JFrame();

        frame.setVisible(true);

        frame.setSize(200,200);

        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);

        frame.addWindowListener(new WindowAdapter()
        {
            public void windowOpened(WindowEvent e)
            {
                JOptionPane.showMessageDialog(null, "Welcome!!!!");
            }
            public void windowClosing(WindowEvent e) {
                JOptionPane.showMessageDialog(null, "Good Bye!!!!");
            }
        });
```

EVENT HANDELING 16

```java
import javax.swing.JFrame;
```

```java
import javax.swing.JButton;

import java.awt.FlowLayout;

import java.awt.event.MouseAdapter;

import java.awt.event.MouseListener;

import java.awt.event.MouseEvent;


class GUI
{
    JFrame frame;
    JButton click,press;
    public GUI()
    {
        frame = new JFrame();
        click = new JButton("CLICK");
        press = new JButton("PRESS");
        frame.setLayout(new FlowLayout());
        frame.add(click);
        frame.add(press);
        frame.setVisible(true);
        frame.setSize(400,200);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        click.addMouseListener(new MouseAdapter()
        {
        public void mouseClicked(MouseEvent me)
        {
```

```java
      System.out.println("The button was clicked");

    }

    });

    press.addMouseListener(new MouseAdapter()

    {

    public void mousePressed(MouseEvent me)

    {

      System.out.println("The button was pressed");

      });
```

```java
import java.awt.FlowLayout;

import java.awt.event.MouseAdapter;

import javax.swing.JFrame;

import javax.swing.JLabel;

import javax.swing.JButton;

import java.awt.event.MouseListener;

import java.awt.event.MouseMotionListener;

import java.awt.event.WindowListener;

import java.awt.event.MouseEvent;

import java.awt.event.MouseMotionAdapter;

import java.awt.event.WindowAdapter;

import java.awt.event.WindowEvent;

import javax.swing.JOptionPane;

class GUI
```

```java
{
    int x,y;

    JFrame frame;
    JButton exit;
    JLabel label;
    public GUI()
    {
        frame = new JFrame();
        exit = new JButton("Exit");
        label = new JLabel("Move mouse on the frame");
        frame.setLayout(new FlowLayout());
        frame.add(label);
        frame.add(exit);
        frame.setVisible(true);
        frame.setSize(300,400);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.addWindowListener(new WindowAdapter()
        {
        public void windowOpened(WindowEvent e) {
        JOptionPane.showMessageDialog(null, "Welcome !!!!");
        }
        public void windowClosing(WindowEvent e) {
        JOptionPane.showMessageDialog(null, "Good Bye !!!!");
        }
```

```java
        }
    );

    frame.addMouseMotionListener(new MouseMotionAdapter()
    {
        public void mouseMoved(MouseEvent e)
        {
            x = e.getX();

            y = e.getY();

            label.setText(x + " , " + y);
        }
    }
    );

    exit.addMouseListener(new MouseAdapter()
    {
        public void mouseClicked(MouseEvent e)
        {
            System.exit(0);
        }}}
```