**PRACTICAL NO 09**

**Demonstrate the use of Adapter Class in Event Handling**

import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

class import javax.swing.\*;

import java.awt.event.\*;

import java.awt.\*;

class FocusEventExample extends FocusAdapter{

private JFrame frame;

JLabel l1,l2;

JTextField t1,t2;

FocusEventExample() {

frame = new JFrame("KeyEvent Example");

frame.setSize(400, 300);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

l1=new JLabel("Name");

l2=new JLabel("Mobile no");

t1=new JTextField(10);

t2=new JTextField(10);

frame.add(l1); frame.add(t1); frame.add(l2);frame.add(t2);

frame.setLayout(new FlowLayout());

t2.addFocusListener(this);

frame.setVisible(true);

}

public void focusLost(FocusEvent e)

{

String a= t2.getText().trim();

if (a.length() != 10 || !a.matches("\\d{10}")) {

// Invalid mobile number, show a message and highlight the field

JOptionPane.showMessageDialog(frame, "Please enter a valid 10-digit mobile number.", "Invalid Input", JOptionPane.ERROR\_MESSAGE);

}

}

public static void main(String args[])

{

new FocusEventExample();

}

} extends FocusAdapter{

private JFrame frame;

JLabel l1,l2;

JTextField t1,t2;

JButton b;

FocusEventExample() {

frame = new JFrame("KeyEvent Example");

frame.setSize(400, 300);

frame.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

l1=new JLabel("Name");

l2=new JLabel("Mobile no");

t1=new JTextField(10);

t2=new JTextField(10);

frame.add(l1); frame.add(t1); frame.add(l2);frame.add(t2);

b=new JButton("Submit");

frame.add(b);

frame.setLayout(new FlowLayout());

t2.addFocusListener(this);

frame.setVisible(true);

}

public void focusLost(FocusEvent e)

{

String a= t2.getText().trim();

if (a.length() != 10 || !a.matches("\\d{10}")) {

// Invalid mobile number, show a message and highlight the field

JOptionPane.showMessageDialog(frame, "Please enter a valid 10-digit mobile number.", "Invalid Input", JOptionPane.ERROR\_MESSAGE);

}

}

public static void main(String args[])

{

new FocusEventExample();

}

}

**OUTPUT:**

