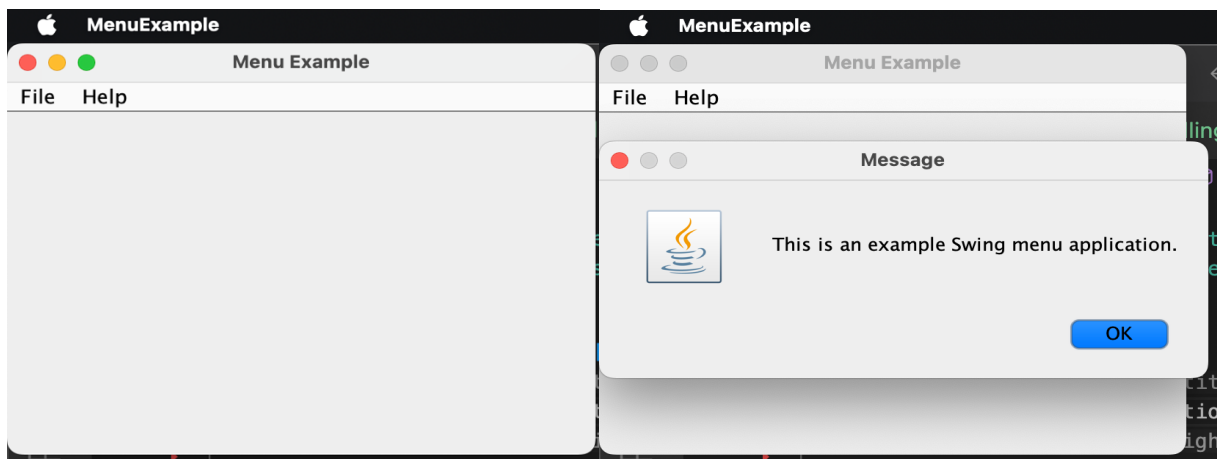


## WAP TO MAKE MENU AND MENUBAR :

```
J MenuExample.java > MenuExample > main(String[])
1  import javax.swing.*;
2  import java.awt.event.ActionEvent;
3  import java.awt.event.ActionListener;
4  public class MenuExample {
5      public static void main(String[] args) {
6          JFrame frame = new JFrame(title:"Menu Example");
7          frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
8          frame.setSize(width:400,height:300);
9          JMenuBar menuBar = new JMenuBar();
10         JMenu fileMenu = new JMenu(s:"File");
11         JMenuItem newItem = new JMenuItem(text:"New");
12         JMenuItem openItem = new JMenuItem(text:"Open");
13         JMenuItem saveItem = new JMenuItem(text:"Save");
14         JMenuItem exitItem = new JMenuItem(text:"Exit");
15         exitItem.addActionListener(new ActionListener() { @Override
16             public void actionPerformed(ActionEvent e) {
17                 System.exit(status:0);
18             }
19         });
20         fileMenu.add(newItem);
21         fileMenu.add(openItem);
22         fileMenu.add(saveItem);
23         fileMenu.addSeparator();
24         fileMenu.add(exitItem);
25         JMenu helpMenu = new JMenu(s:"Help");
26         JMenuItem aboutItem = new JMenuItem(text:"About");
27         aboutItem.addActionListener(new ActionListener() {
28             @Override
29             public void actionPerformed(ActionEvent e) {
30                 JOptionPane.showMessageDialog(parentComponent:null, message:"This is an example Swing menu application.");
31             }
32         });
33         helpMenu.add(aboutItem);
34         menuBar.add(fileMenu);
35         menuBar.add(helpMenu);
36         frame.setJMenuBar(menuBar);
37         frame.setVisible(b:true);
38     }
39
40 }
```

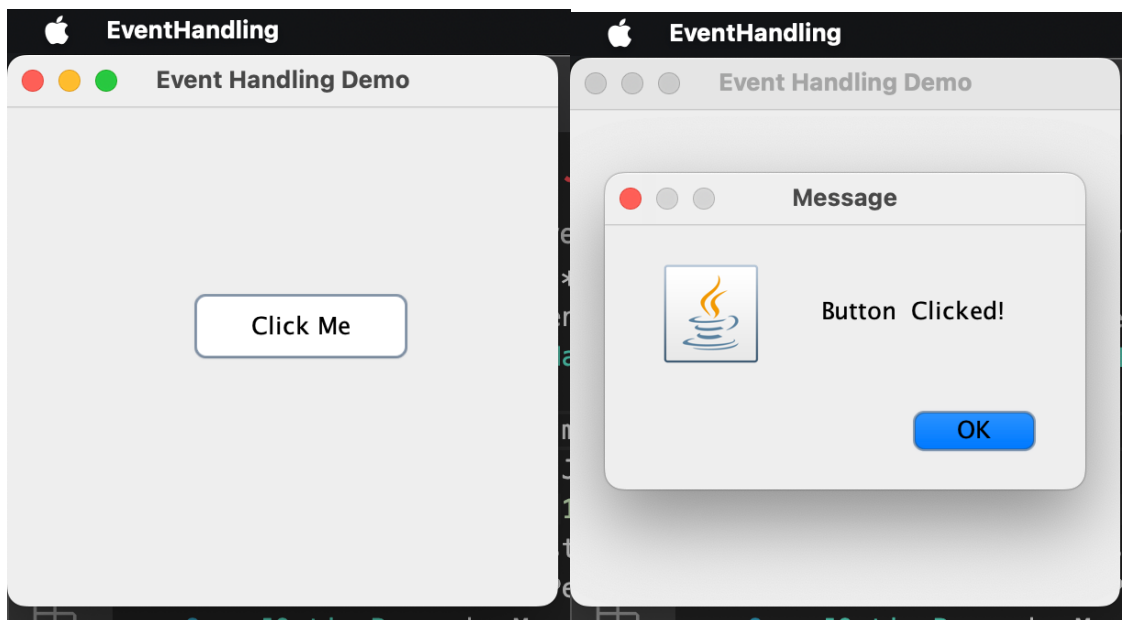
## OUTPUT :



## PROGRAM FOR EVENT HANDLING :

```
J EventHandling.java > EventHandling > main(String[])
1  import javax.swing.*;
2  import java.awt.event.*;
3  public class EventHandling {
    Run | Debug
4  public static void main(String[] args) {
5      JFrame frame = new JFrame(title:"Event Handling Demo"); JButton button = new JButton(text:"Click Me");
6      button.setBounds(x:100, y:100, width:120, height:40);
7      button.addActionListener(new ActionListener() {
8          public void actionPerformed(ActionEvent e) {
9              JOptionPane.showMessageDialog(frame, message:"Button Clicked!");
10         }
11     });
12     frame.add(button);
13     frame.setSize(width:300, height:300);
14     frame.setLayout(manager:null);
15     frame.setVisible(b:true);
16     frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
17 }
18 }
```

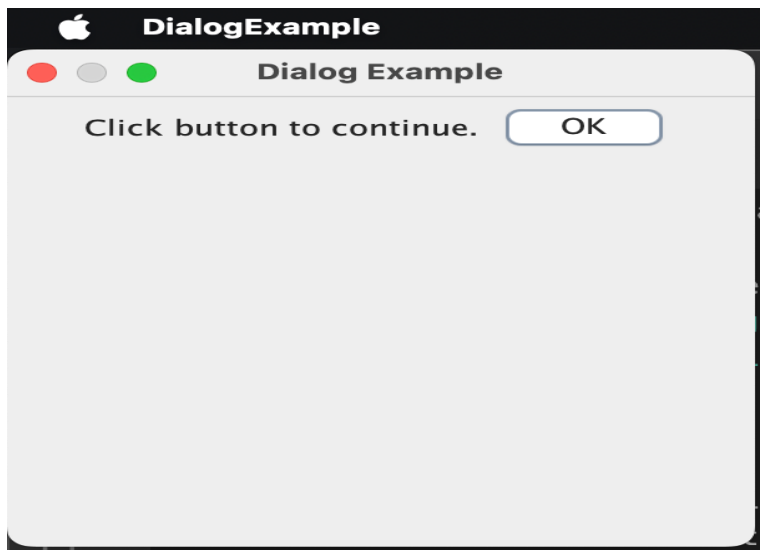
## OUTPUT :



## PROGRAM FOR DIALOGS :

```
J DialogExample.java > DialogExample > DialogExample()
1  import java.awt.*;
2  import java.awt.event.*;
3  public class DialogExample {
4  private static Dialog d;
5  DialogExample() {
6  Frame f= new Frame();
7  d = new Dialog(f , title:"Dialog Example", modal:true);
8  d.setLayout( new FlowLayout() );
9  Button b = new Button (label:"OK");
10 b.addActionListener ( new ActionListener()
11 {
12 public void actionPerformed((ActionEvent e) {
13 DialogExample.d.setVisible(b:false);
14 }
15 });
16 d.add( new Label (text:"Click button to continue.)); d.add(b);
17 d.setSize(width:300,height:300);
18 d.setVisible(b:true);
19 }
    Run | Debug
20 public static void main(String args[])
21 {
22 new DialogExample();
23 }
24 }
25
```

## OUTPUT :



## PROGRAM FOR LOGIN FORM :

```
J LoginForm.java > ...
1  import javax.swing.*;
2  import java.awt.*;
3  import java.awt.event.ActionEvent;
4  import java.awt.event.ActionListener;
5  public class LoginForm extends JFrame {
6  private JLabel titleLabel, usernameLabel, passwordLabel; private JTextField usernameField;
7  private JPasswordField passwordField;
8  private JButton loginButton;
9  public LoginForm() {
10 setTitle(title:"Login Form");
11 setSize(width:300, height:200);
12 setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
13 setLayout(new GridLayout(rows:4, cols:2, hgap:5, vgap:5));
14 titleLabel = new JLabel(text:"Login Form");
15 titleLabel.setFont(new Font(name:"Arial", Font.BOLD, size:18)); add(titleLabel);
16 usernameLabel = new JLabel(text:"Username:");
17 add(usernameLabel);
18 usernameField = new JTextField();
19 add(usernameField);
20 passwordLabel = new JLabel(text:"Password:");
21 add(passwordLabel);
22 passwordField = new JPasswordField();
23 add(passwordField);
24 loginButton = new JButton(text:"Login");
25 loginButton.addActionListener(new ActionListener() { @Override
26 public void actionPerformed(ActionEvent e) {
27 String username = usernameField.getText();
28 String password = new
29 String(passwordField.getPassword());
30 if (username.equals(anObject:"admin") &&
31 password.equals(anObject:"admin123")) {

J LoginForm.java > ...
32 JOptionPane.showMessageDialog(LoginForm.this,
33 message:"Login Successful!");
34 } else {
35 JOptionPane.showMessageDialog(LoginForm.this,
36 message:"Invalid Username or Password", title:"Error", JOptionPane.ERROR_MESSAGE); }
37 }
38 });
39 add(loginButton);
40 setVisible(b:true);
41 }
Run | Debug
42 public static void main(String[] args) { SwingUtilities.invokeLater(new Runnable() { @Override
43 public void run() {
44 new LoginForm();
45 }
46 });
47 }
48 }
49 |
```

**OUTPUT :**

