

Assignment: 8

Implement a program that demonstrates use of dialog box and menus
package dem;

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

```
import java.awt.event.ActionEvent;
```

```
import java.awt.event.ActionListener;
```

```
import java.io.File;
```

```
public class DialogBoxAndMenu {
```

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

```
        // Create the main frame
```

```
        JFrame frame = new JFrame("Dialog Box and Menu Demo");
```

```
        frame.setSize(400, 300);
```

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

```
        // Create a menu bar
```

```
        JMenuBar menuBar = new JMenuBar();
```

```
        // Create the "File" menu
```

```
        JMenu fileMenu = new JMenu("File");
```

```
        // Create menu items for the "File" menu
```

```
        JMenuItem openFileItem = new JMenuItem("Open");
```

```
        JMenuItem exitItem = new JMenuItem("Exit");
```

```
        // Add action listener for "Open" menu item
```

```
        openFileItem.addActionListener(new ActionListener() {
```

@Override

```
public void actionPerformed(ActionEvent e) {  
    // Create a file chooser  
    JFileChooser fileChooser = new JFileChooser();  
    // Show the open dialog  
    int result = fileChooser.showOpenDialog(frame);  
    // Check if a file was selected  
    if (result == JFileChooser.APPROVE_OPTION) {  
        File selectedFile = fileChooser.getSelectedFile();  
        // Display the selected file's path  
        JOptionPane.showMessageDialog(frame,  
            "You selected: " + selectedFile.getAbsolutePath(),  
            "File Opened",  
            JOptionPane.INFORMATION_MESSAGE);  
    } else if (result == JFileChooser.CANCEL_OPTION) {  
        // Handle cancel action  
        JOptionPane.showMessageDialog(frame,  
            "Open operation was canceled.",  
            "Action Canceled",  
            JOptionPane.WARNING_MESSAGE);  
    }  
}
```

```
});  
// Add action listener for "Exit" menu item  
exitItem.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        // Exit the application  
        System.exit(0);  
    }  
});  
// Add menu items to the "File" menu  
fileMenu.add(openFileItem);  
fileMenu.addSeparator(); // Add a separator  
fileMenu.add(exitItem);  
// Add the "File" menu to the menu bar  
menuBar.add(fileMenu);  
// Create the "Options" menu  
JMenu optionsMenu = new JMenu("Options");  
  
// Create menu items for the "Options" menu  
JMenuItem showMessageItem = new JMenuItem("Show  
Message");  
// Add action listener for "Show Message" menu item
```

```
showMessageItem.addActionListener(new ActionListener() {  
    @Override  
    public void actionPerformed(ActionEvent e) {  
        // Show a dialog box with a message  
        JOptionPane.showMessageDialog(frame,  
            "Hello! This is a dialog box.",  
            "Message",  
            JOptionPane.INFORMATION_MESSAGE);  
    }  
});  
  
// Add menu items to the "Options" menu  
optionsMenu.add(showMessageItem);  
  
// Add the menus to the menu bar  
menuBar.add(optionsMenu);  
  
// Set the menu bar to the frame  
frame.setJMenuBar(menuBar);  
  
// Set frame visibility  
frame.setVisible(true);  
}  
}
```

Output :

