

Java Programming

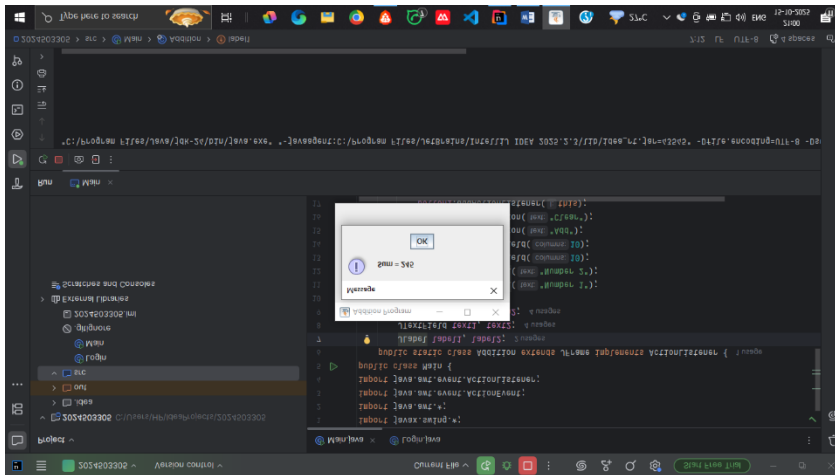
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Addition Using GUI:

Code :

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
public class Main {
    public static class Addition extends JFrame implements ActionListener {
        JLabel label1, label2;
        JTextField text1, text2;
        JButton button1, button2;
        Addition() {
            label1 = new JLabel("Number 1");
            label2 = new JLabel("Number 2");
            text1 = new JTextField(10);
            text2 = new JTextField(10);
            button1 = new JButton("Add");
            button2 = new JButton("Clear");
            button1.addActionListener(this);
            button2.addActionListener(this);
            setLayout(new FlowLayout());
            add(label1);
            add(text1);
            add(label2);
            add(text2);
            add(button1);
            add(button2);
            setSize(300, 200);
            setVisible(true);
            setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
            setTitle("Addition Program");
        }
    }
}
```

Login Page Using GUI

Code:

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

public class Login extends JFrame implements ActionListener {
    JLabel userLabel, passLabel;
    JTextField userText;
    JPasswordField passText;
    JButton loginButton, clearButton;

    Login() {
        userLabel = new JLabel("Username:");
        passLabel = new JLabel("Password:");
        userText = new JTextField(15);
        passText = new JPasswordField(15);
        loginButton = new JButton("Login");
        clearButton = new JButton("Clear");
        loginButton.addActionListener(this);
        clearButton.addActionListener(this);
        setLayout(new GridLayout(3, 2, 10, 10));
        add(userLabel);
        add(userText);
        add(passLabel);
        add(passText);
        add(loginButton);
        add(clearButton);
        setTitle("Login Form");
    }
}
```

```

setSize(300, 150);
setLocationRelativeTo(null); // Center the window
setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
setVisible(true);
}
@Override
public void actionPerformed(ActionEvent e) {
    if (e.getSource() == loginButton) {
        String username = userText.getText();
        String password = new String(passText.getPassword());
        if (username.equals("admin") && password.equals("1234")) {
            JOptionPane.showMessageDialog(this, "Login Successful!");
        } else {
            JOptionPane.showMessageDialog(this, "Invalid Username or
Password!");
        }
    } else if (e.getSource() == clearButton) {
        userText.setText("");
        passText.setText("");
    }
}
public static void main(String[] args) {
    new Login();
}
}

```

Output:

