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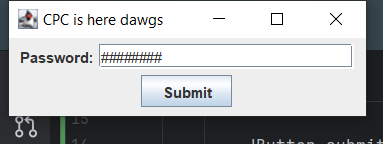
Practical No: 12

**1)** **Write a program using JPasswordField to set the password character as ‘#’ instead of ‘\*’**

**CODE:**

import javax.swing.\*;  
import java.awt.\*;  
  
public class Main {  
 public static void CustomPasswordCharacter() {  
 JFrame frame = new JFrame("CPC is here dawgs");  
 frame.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 frame.setLayout(new FlowLayout());  
  
 JPasswordField passwordField = new JPasswordField(20);  
 passwordField.setEchoChar('#');  
  
 frame.add(new JLabel("Password:"));  
 frame.add(passwordField);  
  
 JButton submitButton = new JButton("Submit");  
 frame.add(submitButton);  
  
 frame.setBackground(Color.*DARK\_GRAY*);  
 frame.setSize(300, 100);  
 frame.setVisible(true);  
 }  
  
 public static void main(String[] args) {  
 *CustomPasswordCharacter*();  
 }  
}

**OUTPUT:**

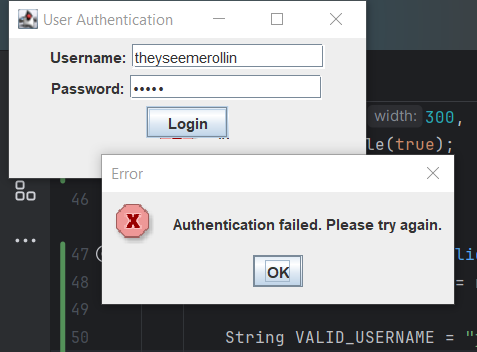
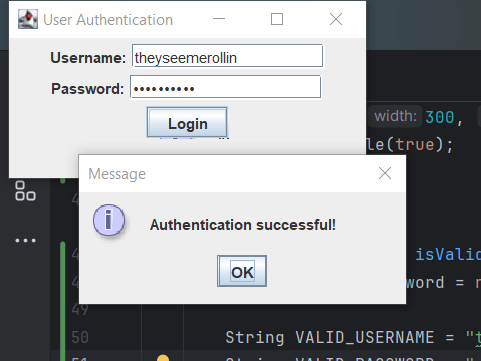


**2) Write a program using JPasswordField and JTextField to demonstrate the use of user authentication**

**CODE:**

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;   
public class Main {  
 public static void UserAuthenticationDemo() {  
 JFrame frame = new JFrame("User Authentication"); frame.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 frame.setLayout(new FlowLayout());  
 JLabel usernameLabel = new JLabel("Username:");  
 JTextField usernameField = new JTextField(15);   
 JLabel passwordLabel = new JLabel("Password:");  
 JPasswordField passwordField = new JPasswordField(15);   
 JButton loginButton = new JButton("Login");  
loginButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 String enteredUsername = usernameField.getText();  
 char[] enteredPassword = passwordField.getPassword();  
 if (*isValidUser*(enteredUsername, enteredPassword)) { JOptionPane.*showMessageDialog*(frame, "Authentication successful!");  
 } else {  
 JOptionPane.*showMessageDialog*(frame, "Authentication failed. Please try again.", "Error", JOptionPane.*ERROR\_MESSAGE*); }  
 passwordField.setText("");}});  
 frame.add(usernameLabel);  
 frame.add(usernameField);  
 frame.add(passwordLabel);  
 frame.add(passwordField);  
 frame.add(loginButton);   
 frame.setSize(300, 150);  
 frame.setVisible(true); }  
 private static boolean isValidUser(String username, char[] password) {  
 String enteredPassword = new String(password);   
 String VALID\_USERNAME = "theyseemerollin";  
 String VALID\_PASSWORD = "qwertyuiop";  
 return username.equals(VALID\_USERNAME) && enteredPassword.equals(VALID\_PASSWORD }  
 public static void main(String[] args) {  
 *UserAuthenticationDemo*();}}

**OUTPUT:**

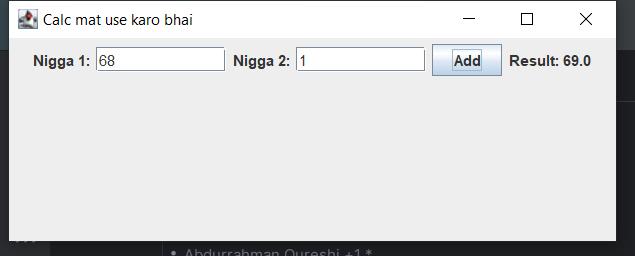


**3)** **Write a program using JTextField to perform the addition of two numbers.**

**CODE:**

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Main {  
 public static void AdditionCalculator() {  
 JFrame frame = new JFrame("Calc mat use karo bhai");  
 frame.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 frame.setLayout(new FlowLayout());  
  
 JLabel label1 = new JLabel("Nigga 1:");  
 JTextField numberField1 = new JTextField(10);  
  
 JLabel label2 = new JLabel("Nigga 2:");  
 JTextField numberField2 = new JTextField(10);  
  
 JButton addButton = new JButton("Add");  
  
 JLabel resultLabel = new JLabel("Result:");  
  
 addButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 try {  
 double num1 = Double.*parseDouble*(numberField1.getText());  
 double num2 = Double.*parseDouble*(numberField2.getText());  
 double result = num1 + num2;  
 resultLabel.setText("Result: " + result);  
 } catch (NumberFormatException ex) {  
 resultLabel.setText("Invalid input. Please enter valid numbers.");  
 }  
 }  
 });  
  
 frame.add(label1);  
 frame.add(numberField1);  
 frame.add(label2);  
 frame.add(numberField2);  
 frame.add(addButton);  
 frame.add(resultLabel);  
  
 frame.setSize(500, 200);  
 frame.setVisible(true);  
 }  
  
 public static void main(String[] args) {  
 *AdditionCalculator*();  
 }  
}

**OUTPUT:**



**4)** **Write a program using JPasswordField to accept password from user and if the length is less than 6 characters then error message should be displayed “Password length must be >6 characters”**

**CODE:**

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Main {  
 public static void PasswordLengthValidator() {  
 JFrame frame = new JFrame("Password Length Validator");  
 frame.setDefaultCloseOperation(JFrame.*EXIT\_ON\_CLOSE*);  
 frame.setLayout(new FlowLayout());  
  
 JLabel label = new JLabel("Enter Password:");  
 JPasswordField passwordField = new JPasswordField(15);  
  
 JButton submitButton = new JButton("Submit");  
  
 JLabel messageLabel = new JLabel();  
  
 submitButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 char[] passwordChars = passwordField.getPassword();  
 String password = new String(passwordChars);  
  
 if (password.length() < 6) {  
 messageLabel.setText("Password length must be > 6 characters");  
 } else {  
 messageLabel.setText("Password is valid!");  
 // You can perform further password validation or processing here.  
 }  
 }  
 });  
  
 frame.add(label);  
 frame.add(passwordField);  
 frame.add(submitButton);  
 frame.add(messageLabel);  
  
 frame.setSize(300, 150);  
 frame.setVisible(true);  
 }  
  
 public static void main(String[] args) {  
 *PasswordLengthValidator*();  
 }  
}

**OUTPUT:**

