***Bill Management System***

****

**Course: OOP (Java)**

**Topic: Bill Management System**

**Submitted to: Mr. Mohsin Abbas**

**Group Members: Saif Ullah, Asmat Ullah Atal, Kaif Ali**

**Section: BSSE-II-B**

**Dated: ----------------------------**

**Introduction:**

**We made a project of Restaurant Bill management system. In this project we made a complete bill management system for a specific restaurant which calculates bill for Customers.**

**Features:**

This project contains:

* Admin Panel
* About Us
* Menu Panel

**Admin Panel:**

We assign User Name and Password for Admin Panel, after login we show a Frame for admin in which we shows old prices of products in TextFields admin can change/update old prices. When admin changed any price then it will display a message “Prices Changed” on the screen.

**About Us:**

About Us is the first frame user can see when run the Project. In About Us we add the Restaurant Name, Address and Contact Number.

**Menu Panel:**

In Menu Panel we show Menu of restaurant with prices of product to the customer in which customer can choose a number of products and when customer press the button “Total” it will display the total price.

**Classes used in Project:**

* Main Class
* Password Class
* Admin Class
* Menu Class

**Main Class:**

Main Class shows Information Restaurant (Name, Address, Contact).

**Password Class:**

In Password Class we set User Name and Password for Admin Panel.

**Admin Class:**

In Admin we shows old prices of products in TextFields admin can change/update old prices.

**Menu Class:**

In Menu Panel we show Menu of restaurant with prices of product to the customer in which customer can choose a number of products and when customer press the button “Total” it will display the total price.

**Program:**

Main Class:

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Main {  
  
 public Main(){  
 JFrame frm = new JFrame("About Us");  
 frm.getContentPane().setBackground(Color.*yellow*);  
  
 JMenu menu1, menu2, menu3;  
  
 JMenuBar mb2=new JMenuBar();  
 menu1=new JMenu("Admin");  
 menu2=new JMenu("About Us");  
 menu3=new JMenu("Menu");  
 JMenuItem x1=new JMenuItem("OPEN");  
 JMenuItem x2=new JMenuItem("OPEN");  
 JMenuItem x3=new JMenuItem("OPEN");  
 menu1.add(x1); menu2.add(x2); menu3.add(x3);  
  
 mb2.setBackground(Color.*GREEN*);  
  
 Font font=new Font("Arial",Font.*BOLD*,30);  
 Font font1=new Font("Arial",Font.*BOLD*,25);  
  
 JLabel jl = new JLabel("Bill Management Software");  
 jl.setBounds(160,1,400,100);  
 jl.setFont(font);  
  
 JLabel jl1 = new JLabel("Spin Ghar Resturent");  
 jl1.setBounds(225,100,400,100);  
 jl1.setFont(font1);  
 JLabel jl2 = new JLabel("Address: Hangu Patak, Kohat");  
 jl2.setBounds(270,200,400,100);  
 JLabel jl3 = new JLabel("Contact Us: 03123456789");  
 jl3.setBounds(280,300,400,100);  
  
  
 x1.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frm.setVisible(false);  
 new password();  
 }  
 });  
  
 x3.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frm.setVisible(false);  
 new Menu();  
 }  
 });  
  
  
 mb2.add(menu1);  
 mb2.add(menu2);  
 mb2.add(menu3);  
 frm.add(jl);  
 frm.add(jl1);  
 frm.add(jl2);  
 frm.add(jl3);  
 frm.setJMenuBar(mb2);  
 frm.setSize(700, 500);  
 frm.setLayout(null);  
 frm.setDefaultCloseOperation(frm.*EXIT\_ON\_CLOSE*);  
 frm.setVisible(true);  
 }  
 public static void main(String[] args) {  
 new Main();  
  
 }  
}

Admin Class:

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Admin {  
  
 static int *Cofee*=70;  
 static int *Juice*=100;  
 static int *Egg*=35;  
 static int *Fries*=45;  
 static int *Cake*=65;  
 static int *Tea*=55;  
  
 public Admin(){  
  
 JFrame frame1=new JFrame("Admin Pannel");  
 frame1.setSize(700,500);  
 frame1.setLayout(null);  
 frame1.setDefaultCloseOperation(frame1.*EXIT\_ON\_CLOSE*);  
 JMenu menu4, menu5, menu6;  
  
 JMenuBar mb2=new JMenuBar();  
 menu4=new JMenu("Admin");  
 menu5=new JMenu("About Us");  
 menu6=new JMenu("Menu");  
 JMenuItem x12=new JMenuItem("OPEN");  
 JMenuItem x22=new JMenuItem("OPEN");  
 JMenuItem x32=new JMenuItem("OPEN");  
 menu4.add(x12); menu5.add(x22); menu6.add(x32);  
 mb2.add(menu4);  
 mb2.add(menu5);  
 mb2.add(menu6);  
  
 x22.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frame1.setVisible(false);  
 new Main();  
 }  
 });  
  
 x32.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frame1.setVisible(false);  
 new Menu();  
 }  
 });  
 mb2.setBackground(Color.*GREEN*);  
 frame1.getContentPane().setBackground(Color.*PINK*);  
 JLabel jLabel1=new JLabel("Cofee");  
 jLabel1.setForeground(Color.*BLUE*);  
 jLabel1.setBounds(40,50,100,30);  
 JTextField jTextField1=new JTextField(String.*valueOf*(*Cofee*));  
 jTextField1.setBackground(Color.*yellow*);  
 jTextField1.setBounds(270,50,100,30);  
 JLabel jLabel2=new JLabel("Juice");  
 jLabel2.setForeground(Color.*BLUE*);  
 jLabel2.setBounds(40,100,100,30);  
 JTextField jTextField2=new JTextField(String.*valueOf*(*Juice*));  
 jTextField2.setBackground(Color.*yellow*);  
 jTextField2.setBounds(270,100,100,30);  
 JLabel jLabel3=new JLabel("Fries");  
 jLabel3.setForeground(Color.*BLUE*);  
 jLabel3.setBounds(40,150,100,30);  
 JTextField jTextField3=new JTextField(String.*valueOf*(*Fries*));  
 jTextField3.setBackground(Color.*yellow*);  
 jTextField3.setBounds(270,150,100,30);  
 JLabel jLabel4=new JLabel("Egg");  
 jLabel4.setForeground(Color.*BLUE*);  
 jLabel4.setBounds(40,200,100,30);  
 JTextField jTextField4=new JTextField(String.*valueOf*(*Egg*));  
 jTextField4.setBackground(Color.*yellow*);  
 jTextField4.setBounds(270,200,100,30);  
 JLabel jLabel5=new JLabel("Tea");  
 jLabel5.setForeground(Color.*BLUE*);  
 jLabel5.setBounds(40,250,100,30);  
 JTextField jTextField5=new JTextField(String.*valueOf*(*Tea*));  
 jTextField5.setBackground(Color.*yellow*);  
 jTextField5.setBounds(270,250,100,30);  
 JLabel jLabel6=new JLabel("Cake");  
 jLabel6.setForeground(Color.*BLUE*);  
 jLabel6.setBounds(40,300,100,30);  
 JTextField jTextField6=new JTextField(String.*valueOf*(*Cake*));  
 jTextField6.setBackground(Color.*yellow*);  
 jTextField6.setBounds(270,300,100,30);  
 Font font=new Font("Arial",Font.*BOLD*,21);  
 JLabel I=new JLabel("Items");  
 JLabel N=new JLabel("New Prices");  
 N.setBounds(260,5,200,30);  
 N.setFont(font);  
 I.setBounds(35,5,120,30);  
 JButton jButton=new JButton("Change Prices");  
 jButton.setBackground(Color.*CYAN*);  
 jButton.setBounds(90,350,150,30);  
 JLabel jLabel7=new JLabel();  
 jLabel7.setBounds(350,350,200,40);  
 jLabel7.setFont(font);  
 I.setFont(font);  
 frame1.add(I);  
 frame1.add(N);  
 frame1.add(jLabel1);  
 frame1.add(jTextField1);  
 frame1.add(jLabel2);  
 frame1.add(jTextField2);  
 frame1.add(jLabel3);  
 frame1.add(jTextField3);  
 frame1.add(jLabel4);  
 frame1.add(jTextField4);  
 frame1.add(jLabel5);  
 frame1.add(jTextField5);  
 frame1.add(jLabel6);  
 frame1.add(jTextField6);  
 frame1.add(jButton);  
 frame1.add(jLabel7);  
  
 jButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
  
 int a = Integer.*parseInt*(jTextField1.getText());  
 *Cofee*=a;  
  
  
 int b= Integer.*parseInt*(jTextField2.getText());  
 *Juice*=b;  
  
  
 int c= Integer.*parseInt*(jTextField3.getText());  
 *Egg*=c;  
 int d = Integer.*parseInt*(jTextField4.getText());  
 *Fries*=d;  
 int f= Integer.*parseInt*(jTextField5.getText());  
 *Cake*=f;  
 int g= Integer.*parseInt*(jTextField6.getText());  
 *Tea*=g;  
 jLabel7.setText("Prices Changed");  
  
  
 }  
 });  
  
 frame1.setJMenuBar(mb2);  
 frame1.setVisible(true);  
  
 }  
  
 public static void main(String[] args) {  
 new Admin();  
 }  
}

Menu Class:

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class Menu extends Admin {  
 JFrame frm2=new JFrame("Menu");  
 public Menu(){  
  
 JMenu menu1, menu2, menu3;  
  
 JMenuBar mb2=new JMenuBar();  
 mb2.setBackground(Color.*PINK*);  
 menu1=new JMenu("Admin");  
 menu2=new JMenu("About Us");  
 menu3=new JMenu("Menu");  
 JMenuItem x1=new JMenuItem("OPEN");  
 JMenuItem x2=new JMenuItem("OPEN");  
 JMenuItem x3=new JMenuItem("OPEN");  
 menu1.add(x1); menu2.add(x2); menu3.add(x3);  
 frm2.getContentPane().setBackground(Color.*cyan*);  
  
  
 x1.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frm2.setVisible(false);  
 new password();  
 }  
 });  
 x2.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 frm2.setVisible(false);  
 new Main();  
 }  
 });  
  
  
  
 mb2.add(menu1);  
 mb2.add(menu2);  
 mb2.add(menu3);  
 frm2.setJMenuBar(mb2);  
  
  
  
 frm2.setSize(700,500);  
 frm2.setLayout(null);  
 frm2.setDefaultCloseOperation(frm2.*EXIT\_ON\_CLOSE*);  
 JLabel jLabel1=new JLabel("Cofee");  
 Font font=new Font("Arial",Font.*BOLD*,21);  
 JLabel I=new JLabel("Items");  
 JLabel N=new JLabel("NO of Items");  
 JLabel P=new JLabel("Prices");  
 P.setBounds(550,5,100,30);  
 P.setFont(font);  
 N.setBounds(260,5,200,30);  
 N.setFont(font);  
 I.setBounds(35,5,120,30);  
 I.setFont(font);  
 jLabel1.setBounds(40,50,100,30);  
 JTextField jTextField1=new JTextField("0");  
 jTextField1.setBounds(270,50,100,30);  
 jTextField1.setBackground(Color.*magenta*);  
 JLabel jLabel2=new JLabel(*Cofee*+"/jCup");  
 jLabel2.setForeground(Color.*blue*);  
 jLabel1.setForeground(Color.*red*);  
 jLabel2.setBounds(560,50,100,30);  
 JLabel jLabel3=new JLabel("Juice");  
 jLabel3.setForeground(Color.*red*);  
 jLabel3.setBounds(40,100,100,30);  
 JTextField jTextField2=new JTextField("0");  
 jTextField2.setBounds(270,100,100,30);  
 jTextField2.setBackground(Color.*magenta*);  
 JLabel jLabel4=new JLabel(*Juice*+"/Juice");  
 jLabel4.setForeground(Color.*blue*);  
 jLabel4.setBounds(560,100,100,30);  
 JLabel jLabel5=new JLabel("Egg");  
 jLabel5.setForeground(Color.*red*);  
 jLabel5.setBounds(40,150,100,30);  
 JTextField jTextField3=new JTextField("0");  
 jTextField3.setBounds(270,150,100,30);  
 jTextField3.setBackground(Color.*magenta*);  
 JLabel jLabel6=new JLabel(*Egg*+"/Egg");  
 jLabel6.setForeground(Color.*blue*);  
 jLabel6.setBounds(560,150,100,30);  
 JLabel jLabel7=new JLabel("Tea");  
 jLabel7.setForeground(Color.*red*);  
 jLabel7.setBounds(40,200,100,30);  
 JTextField jTextField4=new JTextField("0");  
 jTextField4.setBounds(270,200,100,30);  
 jTextField4.setBackground(Color.*magenta*);  
 JLabel jLabel8=new JLabel(*Tea*+"/Cup");  
 jLabel8.setForeground(Color.*blue*);  
 jLabel8.setBounds(560,200,100,30);  
 JLabel jLabel9=new JLabel("Cake");  
 jLabel9.setForeground(Color.*red*);  
 jLabel9.setBounds(40,250,100,30);  
 JTextField jTextField5=new JTextField("0");  
 jTextField5.setBackground(Color.*magenta*);  
 jTextField5.setBounds(270,250,100,30);  
 JLabel jLabel10=new JLabel(*Cake*+"/Cake");  
 jLabel10.setForeground(Color.*blue*);  
 jLabel10.setBounds(560,250,100,30);  
 JLabel jLabel11=new JLabel("Fries");  
 jLabel11.setForeground(Color.*red*);  
 jLabel11.setBounds(40,300,100,30);  
 JTextField jTextField6=new JTextField("0");  
 jTextField6.setBounds(270,300,100,30);  
 jTextField6.setBackground(Color.*magenta*);  
 JLabel jLabel12=new JLabel(*Fries*+"/Fries");  
 jLabel12.setForeground(Color.*blue*);  
 jLabel12.setBounds(560,300,100,30);  
 JButton jButton=new JButton("Reset");  
 jButton.setBackground(Color.*GREEN*);  
 jButton.setBounds(30,400,70,30);  
 JButton jButton2=new JButton("Total");  
 jButton2.setBackground(Color.*GREEN*);  
 jButton2.setBounds(290,400,70,30);  
 JLabel jLabel13=new JLabel();  
 jLabel13.setFont(font);  
 jLabel13.setBounds(500,400,200,30);  
 frm2.add(I);  
 frm2.add(N);  
 frm2.add(P);  
 frm2.add(jLabel11);  
 frm2.add(jLabel12);  
 frm2.add(jTextField6);  
 frm2.add(jLabel1);  
 frm2.add(jTextField1);  
 frm2.add(jLabel2);  
 frm2.add(jLabel3);  
 frm2.add(jTextField2);  
 frm2.add(jLabel4);  
 frm2.add(jLabel5);  
 frm2.add(jTextField3);  
 frm2.add(jLabel6);  
 frm2.add(jLabel7);  
 frm2.add(jTextField4);  
 frm2.add(jLabel8);  
 frm2.add(jLabel9);  
 frm2.add(jTextField5);  
 frm2.add(jLabel10);  
 frm2.add(jButton);  
 frm2.add(jButton2);  
 frm2.add(jLabel13);  
 frm2.setVisible(true);  
 jButton2.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 int val1=Integer.*parseInt*(jTextField1.getText());  
 int val2= Integer.*parseInt*(jTextField2.getText());  
 int val3= Integer.*parseInt*(jTextField3.getText());  
 int val4= Integer.*parseInt*(jTextField4.getText());  
 int val5= Integer.*parseInt*(jTextField5.getText());  
 int val6= Integer.*parseInt*(jTextField6.getText());  
 int total=(val1\**Cofee*)+(val2\**Juice*)+(val3\**Egg*)+(val4\**Tea*)+(val5\**Cake*)+(val6\**Fries*);  
 jLabel13.setText("Total Bill is "+ total);  
 }  
 });  
  
 jButton.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
  
 jTextField1.setText("0");  
 jTextField2.setText("0");  
 jTextField3.setText("0");  
 jTextField4.setText("0");  
 jTextField5.setText("0");  
 jTextField6.setText("0");  
  
 }  
 });  
 }  
  
 public static void main(String[] args) {  
 new Menu();  
 }  
  
  
  
}

Password Class:

import javax.swing.\*;  
import java.awt.\*;  
import java.awt.event.ActionEvent;  
import java.awt.event.ActionListener;  
  
public class password {  
 JFrame frame=new JFrame();  
 public password(){  
  
 frame.setTitle("Admin Password");  
 frame.setSize(700,500);  
 frame.setDefaultCloseOperation(frame.*EXIT\_ON\_CLOSE*);  
 frame.setLayout(null);  
  
 JLabel jLabel1 = new JLabel("Username");  
 jLabel1.setForeground(Color.*RED*);  
 jLabel1.setBounds(20, 40, 100, 50);  
 JTextField jTextField1 = new JTextField();  
 jTextField1.setBackground(Color.*CYAN*);  
 jTextField1.setBounds(120, 50, 130, 30);  
 JLabel jLabel2 = new JLabel("Password");  
 jLabel2.setForeground(Color.*RED*);  
 jLabel2.setBounds(20, 95, 100, 50);  
 JPasswordField jTextField2 = new JPasswordField();  
 jTextField2.setBackground(Color.*CYAN*);  
 jTextField2.setBounds(120, 100, 130, 30);  
 JButton btn=new JButton("Login");  
 btn.setBackground(Color.*magenta*);  
 btn.setBounds(20,150,70,40);  
 JLabel jLabel3=new JLabel();  
 jLabel3.setBounds(20,200,100,30);  
 frame.add(jLabel1);  
 frame.add(jTextField1);  
 frame.add(jLabel2);  
 frame.add(jTextField2);  
 frame.add(btn);  
 frame.setVisible(true);  
 frame.getContentPane().setBackground(Color.*green*);  
  
 btn.addActionListener(new ActionListener() {  
 @Override  
 public void actionPerformed(ActionEvent e) {  
 String name=jTextField1.getText();  
 String pass=jTextField2.getText();  
 if (name.contains("admin")&&pass.contains("123")){  
 frame.setVisible(false);  
 new Admin();  
 }  
 else {  
 JOptionPane.*showMessageDialog*(frame,"invalid login","login error", JOptionPane.*ERROR\_MESSAGE*);  
  
 }  
  
 }  
 });  
 }  
}

***Thank You!!!***