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**Class – FYMCA**

**Division – A, Batch- A1**

**Roll No- 07**

**Subject – Object Oriented Programming.**

**Assignment No – 13**

**Assignment Title – Design Food order delivery system management .**

**Input -**

**import java.awt.\*;**

**import java.awt.event.\*;**

**import javax.swing.JOptionPane;**

**public class RestaurantManagementSystem extends Frame implements ActionListener {**

**Label name, mobile, itemName, itemPrice, quantity;**

**TextField nameField, mobileField, itemNameField, itemPriceField, quantityField;**

**Button add, place;**

**TextArea billArea;**

**double totalBill;**

**public RestaurantManagementSystem() {**

**setTitle("Restaurant Management System");**

**setSize(600, 400);**

**setLayout(new BorderLayout());**

**Panel p = new Panel(new GridLayout(2, 2, 10, 5));**

**name = new Label("Name:");**

**p.add(name);**

**nameField = new TextField(20);**

**p.add(nameField);**

**mobile = new Label("Mobile No:");**

**p.add(mobile);**

**mobileField = new TextField(20);**

**p.add(mobileField);**

**add(p, BorderLayout.NORTH);**

**Panel centerPanel = new Panel(new GridLayout(4, 2, 10, 5));**

**itemName = new Label("Item Name:");**

**centerPanel.add(itemName);**

**itemNameField = new TextField(20);**

**centerPanel.add(itemNameField);**

**itemPrice = new Label("Item Price:");**

**centerPanel.add(itemPrice);**

**itemPriceField = new TextField(20);**

**centerPanel.add(itemPriceField);**

**quantity = new Label("Quantity:");**

**centerPanel.add(quantity);**

**quantityField = new TextField(20);**

**centerPanel.add(quantityField);**

**add = new Button("Add Item");**

**centerPanel.add(new Label(""));**

**centerPanel.add(add);**

**add.addActionListener(this);**

**add(centerPanel, BorderLayout.CENTER);**

**billArea = new TextArea(10, 30);**

**add(billArea, BorderLayout.EAST);**

**Panel bottomPanel = new Panel(new FlowLayout(FlowLayout.CENTER));**

**place = new Button("Place Order");**

**place.addActionListener(this);**

**bottomPanel.add(place);**

**add(bottomPanel, BorderLayout.SOUTH);**

**totalBill = 0.0;**

**setVisible(true);**

**}**

**public void actionPerformed(ActionEvent e) {**

**if (e.getSource() == add) {**

**String itemName = itemNameField.getText();**

**double itemPrice;**

**int quantity;**

**try {**

**itemPrice = Double.parseDouble(itemPriceField.getText());**

**quantity = Integer.parseInt(quantityField.getText());**

**} catch (NumberFormatException ex) {**

**// If the input is not a valid number, display an error message**

**JOptionPane.showMessageDialog(this, "Please enter valid item price and quantity.", "Error",**

**JOptionPane.ERROR\_MESSAGE);**

**return;**

**}**

**double subtotal = itemPrice \* quantity;**

**totalBill += subtotal;**

**billArea.append(itemName + " - Rs" + itemPrice + " x " + quantity + " = Rs" + subtotal + "\n");**

**itemNameField.setText("");**

**itemPriceField.setText("");**

**quantityField.setText("");**

**} else if (e.getSource() == place) {**

**String name = nameField.getText();**

**String mobile = mobileField.getText();**

**billArea.append("\nCustomer Name: " + name + "\nMobile No: " + mobile + "\nTotal Bill: Rs" + totalBill**

**+ "\nThank you for your order!");**

**}**

**}**

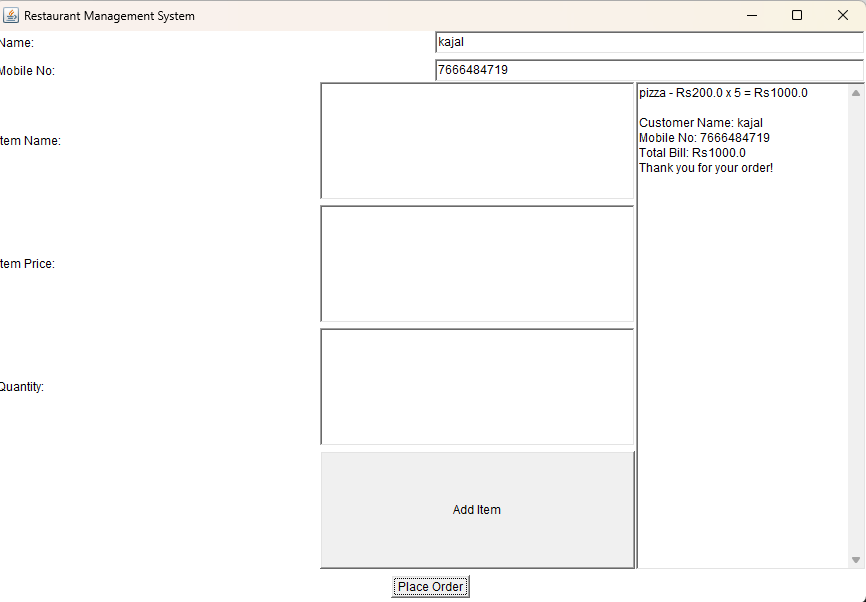
**public static void main(String[] args) {**

**new RestaurantManagementSystem();**

**}**

**}**

**Output -**

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