***Abdullah Najam Qureshi  
Object Oriented Programming  
Final Project***

**Project Code**

**PERSON CLASS**

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| --- |
| **import java.io.Serializable;  public class Person implements Serializable {  protected String firstname;  protected String lastname;  protected String mobileNo;  protected String email;  protected String password;  protected Address address;   public Person() {  }   public Person(String firstname, String lastname, String mobileNo,String email, String password, Address address) {  this.firstname = firstname;  this.lastname = lastname;  this.mobileNo = mobileNo;  this.address = address;  this.email = email;  this.password = password;  }   public String getFirstname() {  return firstname;  }   public void setFirstname(String firstname) {  this.firstname = firstname;  }   public String getLastname() {  return lastname;  }   public void setLastname(String lastname) {  this.lastname = lastname;  }   public String getMobileNo() {  return mobileNo;  }   public void setMobileNo(String mobileNo) {  this.mobileNo = mobileNo;  }   public String getEmail() {  return email;  }   public void setEmail(String email) {  this.email = email;  }   public String getPassword() {  return password;  }   public void setPassword(String password) {  this.password = password;  }   public Address getAddress() {  return address;  }   public void setAddress(Address address) {  this.address = address;  }   public void display() {  System.out.println( "Person{" +  "firstname='" + firstname + '\'' +  ", lastname='" + lastname + '\'' +  ", mobileNo='" + mobileNo + '\'' +  ", email='" + email + '\'' +  ", password='" + password + '\'' +  ", address=" + address +  '}');  } }** |

**CUSTOMER CLASS**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **import java.io.Serializable; import java.util.ArrayList;  public class Customer extends Person implements Serializable {  private Cart cart;  private History History;   public Customer() {  super();  }   public Customer(String firstname, String lastname, String mobileNo, String email, String password, Address address, History h) {  super(firstname, lastname, mobileNo, email,password,address);  Time t1 = new Time ("45 mins");  ArrayList<String> finalAChk = new ArrayList<>();  //Cart c = new Cart(finalAChk);  h = new History(finalAChk,this.address);  }   public Address getAddress() {  return address;  }   public void setAddress(Address address) {  this.address = address;  }   public boolean verifyEmail(String email){  if(email.contains("@") && email.contains(".com")){  return true;  }  else{  //System.out.println("Incorrect email");  return false;  }  }   public boolean verifyContact(String contact){  String [] a = {"12","22","23","11","31","35","34","13","14","15","33"};  for (int i =0; i<11; i++){  if(contact.contains("03"+a[i]) && contact.startsWith("03")){  return true;  }  else{  return false;  }  }  return false;  }   public boolean verifyAddress(Address a){  if(a.getCity().equalsIgnoreCase("Islamabad")|| a.getCity().equalsIgnoreCase("Rawalpindi")){  return true;  }  else{  return false;  }  }   public boolean login(String email,String pass){  if (this.email.equalsIgnoreCase(email) && this.password.equals(pass)){  return true;  }  else{  return false;  }  }   public void addToCart(double a ){   ArrayList <Double> cko = null ;  // for (int i=0; i<cko.size();i++){  cko.add(a);  this.cart.setCheckOut(cko);   }   public void display() {  super.display();  System.out.println( "Customer{" +  "cart=" + cart +  ", firstname='" + firstname + '\'' +  ", lastname='" + lastname + '\'' +  ", mobileNo='" + mobileNo + '\'' +  ", email='" + email + '\'' +  ", password='" + password + '\'' +  ", address=" + address +  '}');  }   public Cart getCart() {  return cart;  }   public void setCart(Cart cart) {  this.cart = cart;  }   public History getHistory() {  return History;  }   public void setHistory(History history) {  History = history;  } }**  **ADDRESS CLASS**   |  | | --- | | **public class Address implements Serializable {  private String area;  private String houseNo;  private String street;  private String city;  private int cityCode;   public Address() {  }   public Address(String area, String houseNo, String street, String city, int cityCode) {  this.area = area;  this.houseNo = houseNo;  this.street = street;  this.city = city;  this.cityCode = cityCode;  }  public Address(String area, String houseNo, String city, int cityCode) {  this.area = area;  this.houseNo = houseNo;  this.city = city;  this.cityCode = cityCode;  }   public String getArea() {  return area;  }   public void setArea(String area) {  this.area = area;  }   public String getHouseNo() {  return houseNo;  }   public void setHouseNo(String houseNo) {  this.houseNo = houseNo;  }   public String getStreet() {  return street;  }   public void setStreet(String street) {  this.street = street;  }   public String getCity() {  return city;  }   public void setCity(String city) {  this.city = city;  }   public int getCityCode() {  return cityCode;  }   public void setCityCode(int cityCode) {  this.cityCode = cityCode;  }   public boolean checkAddress(){   return false;  } }** |   **HISTORY CLASS**   |  | | --- | | import java.io.Serializable; import java.util.ArrayList;  public class **History** implements **Serializable** {  private ArrayList<String>previousOrders;  Address A;   public **History**(ArrayList<String> previousOrders, Address a) {  this.previousOrders = previousOrders;  a = new Address();  }   public ArrayList<String> **getPreviousOrders**() {  return previousOrders;  }   public void **setPreviousOrders**(ArrayList<String> previousOrders) {  this.previousOrders = previousOrders;  }   public Address **getA**() {  return A;  }   public void **setA**(Address a) {  A = a;  } } |   **READ HISTORY CLASS**   |  | | --- | | import java.io.EOFException; import java.io.FileInputStream; import java.io.FileNotFoundException; import java.io.IOException; import java.io.ObjectInputStream; import java.util.ArrayList;  public class **ReadHistory** {   public static ArrayList <Customer> readAllData(){  ArrayList<Customer>CustomerList = new ArrayList<>();  ObjectInputStream inputStream = null;  try{  inputStream = new ObjectInputStream(new FileInputStream("BillHistory.ser"));  boolean EOF = false;  while(!EOF) {  try {  Customer myObj = (Customer) inputStream.readObject();  CustomerList.add(myObj);  //System.out.println("Read: " + myObj.getName());  }  catch (ClassNotFoundException e) {  //System.out.println("Class not found");  }  catch (EOFException end) {  // EOFException is raised when file ends  // set End Of File flag to true so that loop exits  EOF = true;  }  }  } catch(FileNotFoundException e) {  //System.out.println("Cannot find file");  } catch (IOException e) {  //System.out.println("IO Exception while opening stream");  //e.printStackTrace();  } finally { // cleanup code to close stream if it was opened  try {  if(inputStream != null)  inputStream.close( );  } catch (IOException e) {  // TODO Auto-generated catch block  System.out.println("IO Exception while closing file");  }  }  // returns ArrayList  return CustomerList;  }  } |   **READ ALL DATA CLASS**   |  | | --- | | import java.io.EOFException; import java.io.FileInputStream; import java.io.FileNotFoundException; import java.io.IOException; import java.io.ObjectInputStream; import java.util.ArrayList;  public class **ReadAllData** {   public static ArrayList <Customer> readAllData(){  ArrayList<Customer>CustomerList = new ArrayList<>();  ObjectInputStream inputStream = null;  try{  inputStream = new ObjectInputStream(new FileInputStream("Cs.ser"));  boolean EOF = false;  while(!EOF) {  try {  Customer myObj = (Customer) inputStream.readObject();  CustomerList.add(myObj);  //System.out.println("Read: " + myObj.getName());  }  catch (ClassNotFoundException e) {  //System.out.println("Class not found");  }  catch (EOFException end) {  // EOFException is raised when file ends  // set End Of File flag to true so that loop exits  EOF = true;  }  }  } catch(FileNotFoundException e) {  //System.out.println("Cannot find file");  } catch (IOException e) {  //System.out.println("IO Exception while opening stream");  //e.printStackTrace();  } finally { // cleanup code to close stream if it was opened  try {  if(inputStream != null)  inputStream.close( );  } catch (IOException e) {  // TODO Auto-generated catch block  System.out.println("IO Exception while closing file");  }  }  // returns ArrayList  return CustomerList;  }  } |   **LOGIN FRAME CLASS**  import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.awt.event.WindowListener; import java.io.Serializable; import java.util.ArrayList; import javax.swing.\*;   |  | | --- | | public class **LoginFrame** extends **JFrame** {  private JButton JLogin,JCreateNewAccount;  private JButton ForgetP;  private JPanel Jp1,Jp2;  public static JTextField Jt1;  private JTextField Jt2;  private JLabel JL1,JL2;  private Customer c1;  //private Address a1;  //private Time t1;  LoginFrame(){  setDefaultCloseOperation(this.EXIT\_ON\_CLOSE);  setSize(650,200);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  JLogin = new JButton("Login");  JCreateNewAccount = new JButton("Create New Account");  ForgetP = new JButton("Forget Password");  JL1 = new JLabel("Email");  JL2 = new JLabel("Password");  Jt1 = new JTextField(15);  Jt2 = new JTextField(15);  Jp1 = new JPanel(new GridLayout(2,2));  Jp2 = new JPanel(new FlowLayout());  Jp1.setBackground(Color.ORANGE);  Jp2.setBackground(Color.WHITE);  Jp1.add(JL1);  Jp1.add(Jt1);  Jp1.add(JL2);  Jp1.add(Jt2);  Jp2.add(JLogin);  Jp2.add(JCreateNewAccount);  Jp2.add(ForgetP);  Listener1 a = new Listener1();  JLogin.addActionListener(a);  JCreateNewAccount.addActionListener(a);  ForgetP.addActionListener(a);  add(Jp1,BorderLayout.CENTER);  add(Jp2,BorderLayout.SOUTH);  }   public Customer **getC1**() {  return c1;  }   public void **setC1**(Customer c1) {  this.c1 = c1;  }   class **Listener1** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae){  if(ae.getActionCommand().equalsIgnoreCase("Login")){   String email = Jt1.getText();  String pass = Jt2.getText();  if((email.equals("")) & (pass.equals(""))) {  JOptionPane.showMessageDialog(new JFrame(), "Fields Empty");  return;  }  ArrayList<Customer> customList = ReadAllData.readAllData();  for(int i = 0; i < customList.size();i++) {  customList.get(i);  if ((email.equals(customList.get(i).getEmail()) & (pass.equals( customList.get(i).getPassword())))){  LocationFrame lf = new LocationFrame();  setVisible(false);  break;  }  else if ((i== customList.size()-1)&& !(customList.get(i).getEmail().equals(email)) && !(customList.get(i).getPassword().equals(pass)) ){  JOptionPane.showMessageDialog(new JFrame(),"Incorrect Email or Password");  }   /\* if(!(email.equals(customList.get(i).getEmail()))){  JOptionPane.showMessageDialog(new JFrame(),"Incorrect Email ");  }  if(!(email.equals(customList.get(i).getEmail()))){  JOptionPane.showMessageDialog(new JFrame(),"Incorrect Password ");  }  if(!(email.equals(customList.get(i).getEmail()) & (pass.equals( customList.get(i).getPassword())))){  JOptionPane.showMessageDialog(new JFrame(),"Incorrect Password ");  }\*/  // else{  // JOptionPane.showMessageDialog(new JFrame(),"No Account found");  //}  }  }   else if(ae.getActionCommand().equalsIgnoreCase("Create New Account")){  System.out.println("Lets sign up");  NewSignUp su = new NewSignUp();  setVisible(false);  }  else if(ae.getActionCommand().equalsIgnoreCase("Forget Password")){  System.out.println("Forgotten Password");  ForgetPass fp = new ForgetPass();  setVisible(false);  }   }  }  } |   **NEW SIGN UP FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.io.FileNotFoundException; import java.io.FileOutputStream; import java.io.IOException; import java.io.ObjectOutputStream; import java.util.ArrayList;  public class **NewSignUp** extends **JFrame** {  private JLabel fn,ln,mn,e,p,a,Aa,Ah,As,Ac,Acc;  private JTextField fnt,lnt,mnt,et,pt,Aat,Aht,Ast,Act,Acct;  private JPanel p1,p2,p3;  private JButton Su,B;   NewSignUp(){  setLayout(new BorderLayout());  setSize(600,500);  setLocationRelativeTo(null);  setDefaultCloseOperation(this.EXIT\_ON\_CLOSE);  setVisible(true);  p1 = new JPanel(new GridLayout(12,12));  // p2 = new JPanel(new GridLayout(5,2));  p3 = new JPanel(new FlowLayout());  fn = new JLabel("First Name");  ln = new JLabel("Last Name");  mn = new JLabel("Mobile Number");  e = new JLabel("Email ID");  p = new JLabel("Password");  fnt = new JTextField(10);  lnt = new JTextField(10);  mnt = new JTextField(10);  et = new JTextField(10);  pt = new JTextField(10);  Aa = new JLabel("Area");  Ah = new JLabel("House No");  As = new JLabel("Street");  Ac = new JLabel("City");  Acc = new JLabel("City Code");  Aat = new JTextField(10);  Aht = new JTextField(10);  Ast = new JTextField(10);  Act = new JTextField(10);  Acct = new JTextField(10);  Su = new JButton("Sign Up");  B = new JButton("Cancel");  p1.add(fn);  p1.add(fnt);  p1.add(ln);  p1.add(lnt);  p1.add(mn);  p1.add(mnt);  p1.add(e);  p1.add(et);  p1.add(p);  p1.add(pt);  p1.add(Aa);  p1.add(Aat);  p1.add(Ah);  p1.add(Aht);  p1.add(As);  p1.add(Ast);  p1.add(Ac);  p1.add(Act);  p1.add(Acc);  p1.add(Acct);  p3.add(Su);  p3.add(B);  add(p1,BorderLayout.CENTER);  //add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  Listener5 a = new Listener5();  Su.addActionListener(a);  B.addActionListener(a);  }   class **Listener5** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae){  Address a;  Customer C;  ArrayList<String> ckout = new ArrayList<>();  History c;  if(ae.getActionCommand().equalsIgnoreCase("Sign Up")) {  String fname = fnt.getText();  String lname = lnt.getText();  String phone = mnt.getText();  String email = et.getText();  String password = pt.getText();  String area = Aat.getText();  String Hno = Aht.getText();  String Street = Ast.getText();  String city = Act.getText();  String cityc = Acct.getText();   if (fname.equals("") || lname.equals("") || phone.equals("") & email.equals("") || password.equals("") || area.equals("") || Hno.equals("") || Street.equals("") || city.equals("")|| cityc.equals("")) {  JOptionPane.showMessageDialog(new JFrame(), "Fields Empty");  return;  }   // C.verifyEmail(email);  int cc = Integer.parseInt(cityc);  a = new Address(area, Hno, Street, city, cc);  c = new History(ckout,a);  C = new Customer(fname, lname, phone, email, password, a, c);  //double d = Double.parseDouble(phone);  if (C.verifyEmail(email)){   try {  double d = Double.parseDouble(phone);  double hn = Double.parseDouble(Hno);  double sn = Double.parseDouble(Street);  cc = Integer.parseInt(cityc);  ArrayList<Customer> custom1List = ReadAllData.readAllData();  custom1List.add(C);  ObjectOutputStream outputStream;  outputStream = new ObjectOutputStream(new FileOutputStream("Cs.ser"));  for (int i = 0; i < custom1List.size(); i++) {  outputStream.writeObject(custom1List.get(i));  }  outputStream.close();  } catch (FileNotFoundException e1) {  System.out.println("File not Found");  } catch (IOException exp) {  System.out.println("IO Exception while opening file");  }  catch (NumberFormatException | NullPointerException exp) { {  JOptionPane.showMessageDialog(new JFrame(),"Mobile No Should be in digits");  }  }   //setVisible(false);  JOptionPane.showMessageDialog(new JFrame(), " Account Created");  fnt.setText("");  lnt.setText("");  mnt.setText("");  et.setText("");  pt.setText("");  Aat.setText("");  Aht.setText("");  Ast.setText("");  Act.setText("");  Acct.setText("");   setVisible(false);   LoginFrame SU = new LoginFrame();  }  else{  JOptionPane.showMessageDialog(new JFrame(),"Invalid Email");  }  }   else if (ae.getActionCommand().equalsIgnoreCase("Cancel")){  setVisible(false);  LoginFrame lf = new LoginFrame();  }    }  }  } |   **LOCATION FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **LocationFrame** extends **JFrame** {  private JLabel L1;  private JTextField t1;  private JButton b1,Cart,PreviousOrders,Logout,Update;  private JPanel p1,p2;   LocationFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  L1 = new JLabel("Enter Location");  t1 = new JTextField(10);  b1 = new JButton("Proceed");  Cart = new JButton("Go to Cart");  PreviousOrders = new JButton("History");  Logout = new JButton("Logout");  Update = new JButton("Update");  p1.add(L1);  p1.add(t1);  p2.add(b1);  p2.add(Cart);  p2.add(PreviousOrders);  p2.add(Logout);  p2.add(Update);  add(p1,BorderLayout.CENTER);  add(p2,BorderLayout.SOUTH);  Listener2 a = new Listener2();  b1.addActionListener(a);  Cart.addActionListener(a);  PreviousOrders.addActionListener(a);  Logout.addActionListener(a);  Update.addActionListener(a);   }   class **Listener2** implements **ActionListener**{  public void **actionPerformed**(ActionEvent ae){  if(ae.getActionCommand().equalsIgnoreCase("Proceed")){  System.out.println("Location wala");  if(t1.getText().equals("")){  JOptionPane.showMessageDialog(new JFrame(),"Location Not Entered");  }  if(t1.getText().equalsIgnoreCase("Islamabad")){  JOptionPane.showMessageDialog(new JFrame(),"Module Under Maintainence");  }  else if(t1.getText().equalsIgnoreCase("Rawalpindi")){  //JOptionPane.showMessageDialog(new JFrame(),"");  System.out.println("KFC or OPTP wala mod");  RestaurantsFrame Rf = new RestaurantsFrame();  Rf.setVisible(true);  setVisible(false);   }  }  else if(ae.getActionCommand().equalsIgnoreCase("Go to Cart")) {  CartFrame cf = new CartFrame();  cf.setVisible(true);  setVisible(false);  }  else if(ae.getActionCommand().equalsIgnoreCase("History")) {  HistoryFrame cf = new HistoryFrame();  cf.setVisible(true);  setVisible(false);  }  else if(ae.getActionCommand().equalsIgnoreCase("Logout")) {  LoginFrame lf = new LoginFrame();  lf.setVisible(true);  setVisible(false);   }  else if(ae.getActionCommand().equalsIgnoreCase("Update")) {  UpdateFrame lf = new UpdateFrame();  lf.setVisible(true);  setVisible(false);  }  }  } } |   **RESTAURANTS FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **RestaurantsFrame** extends **JFrame**{  private JLabel L;  private JPanel p1,p2,P;  private JButton b1,b2,B;   RestaurantsFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  P = new JPanel(new FlowLayout());  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  b1 = new JButton("KFC");  b2 = new JButton("OPTP");  B = new JButton("Back");  L = new JLabel("Restaurants in your City");  P.add(L);  p1.add(b1);  p1.add(b2);  p2.add(B);  add(P,BorderLayout.NORTH);  add(p1,BorderLayout.CENTER);  add(p2,BorderLayout.SOUTH);  Listener3 a = new Listener3();  b1.addActionListener(a);  b2.addActionListener(a);  B.addActionListener(a);  }   class **Listener3** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {  if (ae.getActionCommand().equalsIgnoreCase("KFC")) {  System.out.println("Restaurant Wala");  KFCFrame kf = new KFCFrame();  setVisible(false);  }  else if (ae.getActionCommand().equalsIgnoreCase("OPTP")) {  System.out.println("Restaurant Wala");  System.out.println("Under Maintainance");  JOptionPane.showMessageDialog(new JFrame(),"Module Undermaintaince");   }  else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  System.out.println("Restaurant Wala");  LocationFrame kf = new LocationFrame();  setVisible(false);  }  }  } } |   **KFC FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.util.ArrayList; import javax.swing.ImageIcon;  public class **KFCFrame** extends **JFrame**{  private JLabel l1,l2,l3,ltb1,ltb2,ltb3,ltb4,ltb5,ltb6,ltb7,ltb8,ltb9;  private JPanel p1,p2,p3,p4,p5,p6;  private JTabbedPane tp;  private JButton b1,b2,b3,b4,b5,b6,b7,b8,b9,back;  private Time t = new Time();  public static ArrayList<String> ItemNames = new ArrayList<>();  public static ArrayList<Integer> ItemPrices = new ArrayList<>();   KFCFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  JTextArea ta=new JTextArea(200,200);  l1 = new JLabel("KFC");  l2 = new JLabel("Pindi - Cant");  l3 = new JLabel(t.getDeliveryTime());  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(null);  p4 = new JPanel(new GridLayout(3,3));  p5 = new JPanel(new GridLayout(3,3));  p6 = new JPanel(new GridLayout(3,3));  p4.setPreferredSize(new Dimension(10,10));  p5.setPreferredSize(new Dimension(10,10));  p6.setPreferredSize(new Dimension(10,10));  // p3.setLocation(null);  b1 = new JButton("Krunch Combo");  b2 = new JButton("Krunch Burger and Drink");  b3 = new JButton("Krunch Burger");  b4 = new JButton("Duo Box");  b5 = new JButton("Mingle Bucket");  b6 = new JButton("Kentucky Combo ");  b7 = new JButton("Zinger Combo");  b8 = new JButton("Mighty Zinger Combo");  b9 = new JButton("Zinger Stacker Combo");  back = new JButton("back");   ImageIcon ic1 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\1.jpg");  ImageIcon ic2 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\3.jpg");  ImageIcon ic3 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\2.jpg");  ImageIcon ic4 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\4.jpg");  ImageIcon ic5 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\5.jpg");  ImageIcon ic6 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\6.jpg");  ImageIcon ic7 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\7.jpg");  ImageIcon ic8 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\8.jpg");  ImageIcon ic9 = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\9.jpg");   ltb1 = new JLabel(ic1);  ltb2 = new JLabel(ic2);  ltb3 = new JLabel(ic3);  ltb4 = new JLabel(ic4);  ltb5 = new JLabel(ic5);  ltb6 = new JLabel(ic6);  ltb7 = new JLabel(ic7);  ltb8 = new JLabel(ic8);  ltb9 = new JLabel(ic9);   tp = new JTabbedPane();  tp.setBounds(20,20,100,100);  tp.setBackground(Color.PINK);  p1.add(l1);  p1.add(l2);  p1.add(l3);  p1.add(back);  p4.add(ltb1);  p4.add(b1);  p4.add(ltb2);  p4.add(b2);  p4.add(ltb3);  p4.add(b3);  p5.add(ltb4);  p5.add(b4);  p5.add(ltb5);  p5.add(b5);  p5.add(ltb6);  p5.add(b6);  p6.add(ltb7);  p6.add(b7);  p6.add(ltb8);  p6.add(b8);  p6.add(ltb9);  p6.add(b9);  //add(p4);  tp.add("Value",p4);  tp.addTab("Promotion",p5);  tp.addTab("Meal",p6);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(tp);  Listener4 a = new Listener4();  b1.addActionListener(a);  b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  b5.addActionListener(a);  b6.addActionListener(a);  b7.addActionListener(a);  b8.addActionListener(a);  b9.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {  if (ae.getActionCommand().equalsIgnoreCase("Krunch Combo")) {  System.out.println("KFC wala");  KrunchCombo kc = new KrunchCombo();  setVisible(false);  }  if (ae.getActionCommand().equalsIgnoreCase("Krunch Burger and Drink")) {  System.out.println("KFC wala");  KrunchBurgerDrink kc = new KrunchBurgerDrink();  setVisible(false);  }  if (ae.getActionCommand().equalsIgnoreCase("Krunch Burger")) {  KrunchBurger kb = new KrunchBurger();  kb.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Duo Box")) {  DuoBox kb = new DuoBox();  kb.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Mingle Bucket")) {  MingleBucket kb = new MingleBucket();  kb.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Kentucky Combo")) {  KentuckyCombo kb = new KentuckyCombo();  kb.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Zinger Combo")) {  ZingerCombo kb = new ZingerCombo();  kb.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Mighty Zinger Combo")) {  MightyZingerCombo mc = new MightyZingerCombo();  mc.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  if (ae.getActionCommand().equalsIgnoreCase("Zinger Stacker Combo")) {  ZingerStackerCombo mc = new ZingerStackerCombo();  mc.setVisible(true);  setVisible(false);  System.out.println("KFC wala");  }  else if (ae.getActionCommand().equalsIgnoreCase("back")) {  System.out.println("KFC wala");  RestaurantsFrame rf = new RestaurantsFrame();  setVisible(false);  }  }  }   public static int **Total**() {  int ta = 0;  for(int i=0; i<ItemPrices.size(); i++){  ta += ItemPrices.get(i);  }  return ta;  }  } |   **KRUNCH COMBO CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.util.ArrayList;  public class **KrunchCombo** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int KrunchCombo = 390;  private int Cheese = 50;  private int Coleslaw = 50;  private int Pepsi = 0;  private int Miranda = 0;  private ButtonGroup g1,g2;  //private static int TotalkrunchCombo = 0;   KrunchCombo(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  Sp1 = new JPanel(new FlowLayout());  Sp2 = new JPanel(new FlowLayout());  b1 = new JRadioButton("Pepsi");  b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Cheese");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Krunch Combo with Hot and Crispy Chicken Piece");  lPrice = new JLabel("390");  l3 = new JLabel("Enjoy a Crispy Lettuce Combo ...");  l4 = new JLabel("Choose your Drink");  l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\1.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  g1 = new ButtonGroup();  g2 = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  p2.add(l4);  p2.add(b1);  p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  g1.add(b1);  g1.add(b2);  g2.add(b3);  g2.add(b4);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  b1.addActionListener(a);  b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;  /\* if (ae.getActionCommand().equalsIgnoreCase("Pepsi")) {  total += Pepsi;  }  else if (ae.getActionCommand().equalsIgnoreCase("Miranda")) {  total += Miranda;  }  else if (ae.getActionCommand().equalsIgnoreCase("Cheese")) {  total += Cheese;  }  else if (ae.getActionCommand().equalsIgnoreCase("Coleslaw")) {  total += Coleslaw;  }\*/   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b1.isSelected()){  total += Pepsi;  }  if (b2.isSelected()){  total += Miranda;  }  if (b3.isSelected()){  total += Cheese;  }  if (b4.isSelected()){  total += Coleslaw;  }   total += KrunchCombo;  KFCFrame.ItemNames.add("Krunch Combo");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }  } |   **KRUNCH BURGER/ DRINK FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.util.ArrayList;  public class **KrunchBurgerDrink** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int KrunchDrinkCombo = 250;  private int Cheese = 50;  private int Coleslaw = 50;  private int Pepsi = 0;  private int Miranda = 0;  //private static int TotalkrunchCombo = 0;   KrunchBurgerDrink(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  Sp1 = new JPanel(new FlowLayout());  Sp2 = new JPanel(new FlowLayout());  b1 = new JRadioButton("Pepsi");  b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Cheese");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Krunch Burger with Drink");  lPrice = new JLabel("250");  l3 = new JLabel("Enjoy a Crispy Lettuce Combo ...");  l4 = new JLabel("Choose your Drink");  l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\3.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  p2.add(l4);  p2.add(b1);  p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  g.add(b1);  g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  b1.addActionListener(a);  b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;  /\* if (ae.getActionCommand().equalsIgnoreCase("Pepsi")) {  total += Pepsi;  }  else if (ae.getActionCommand().equalsIgnoreCase("Miranda")) {  total += Miranda;  }  else if (ae.getActionCommand().equalsIgnoreCase("Cheese")) {  total += Cheese;  }  else if (ae.getActionCommand().equalsIgnoreCase("Coleslaw")) {  total += Coleslaw;  }\*/   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b1.isSelected()) {  total += Pepsi;  }  else if (b2.isSelected()) {  total += Miranda;  }  else if (b3.isSelected()) {  total += Cheese;  }  else if (b4.isSelected()) {  total += Coleslaw;  }  total += KrunchDrinkCombo;  KFCFrame.ItemNames.add("Krunch Burger with Drink");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }  } |   **KRUNCH BURGER FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **KrunchBurger** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int KrunchBurger = 150;  private int Cheese = 50;  private int Coleslaw = 50;  private int Pepsi = 0;  private int Miranda = 0;  //private static int TotalkrunchCombo = 0;   KrunchBurger(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  Sp1 = new JPanel(new FlowLayout());  Sp2 = new JPanel(new FlowLayout());  b1 = new JRadioButton("Pepsi");  b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Cheese");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Krunch Burger");  lPrice = new JLabel("150");  l3 = new JLabel("Enjoy a Crispy Lettuce Combo ...");  l4 = new JLabel("Choose your Drink");  l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\2.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  p2.add(l4);  p2.add(b1);  p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  g.add(b1);  g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  b1.addActionListener(a);  b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b1.isSelected()){  total += Pepsi;  }  if (b2.isSelected()){  total += Miranda;  }  if (b3.isSelected()){  total += Cheese;  }  if (b4.isSelected()){  total += Coleslaw;  }  total += KrunchBurger;  KFCFrame.ItemNames.add("Krunch Burger");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }   } |   **MIGHTY ZINGER COMBO FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;   public class **MightyZingerCombo** extends **JFrame**{  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int MightZingerCombo = 690;  private int CornStick = 150;  private int Pepsi = 0;  private int Miranda = 0;  private int Coleslaw = 50;  private ButtonGroup g;   MightyZingerCombo(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  g = new ButtonGroup();  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  // Sp1 = new JPanel(new FlowLayout());  // Sp2 = new JPanel(new FlowLayout());  b1 = new JRadioButton("Pepsi");  b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Corn Stick");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Mighty Zinger Combo");  lPrice = new JLabel("690");  l3 = new JLabel("Mighty Zinger, with Large Fries,300 ml Drink");  //l4 = new JLabel("Choose your Drink");  //l5 = new JLabel("Extra Cheese");  //l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\8.jpg");  lmp = new JLabel(ic);  // lCustom = new JLabel("Customize your Order");  // b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  // ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  // p1.add(lPrice);  p1.add(l3);  // p2.add(lCustom);  // p2.add(l4);  p2.add(b1);  p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  // p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  g.add(b1);  g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  //b1.addActionListener(a);  //b2.addActionListener(a);  // b3.addActionListener(a);  // b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {  int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b1.isSelected()){  total += Pepsi;  }  if (b2.isSelected()){  total += Miranda;  }  if (b3.isSelected()){  total += CornStick;  }  if (b4.isSelected()){  total += Coleslaw;  }  total += MightZingerCombo;  KFCFrame.ItemNames.add("Might Zinger Combo");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }   } } |   **MINGLE BUCKET FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **MingleBucket** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int MingleBucket = 1200;  private int LargeFries = 150;  private int Coleslaw = 50;   MingleBucket(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  // Sp1 = new JPanel(new FlowLayout());  // Sp2 = new JPanel(new FlowLayout());  //b1 = new JRadioButton("Pepsi");  //b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Large Fries");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Mingle Bucket");  lPrice = new JLabel("1200");  l3 = new JLabel("Mingle Bucket, Wings to Suffice your Hunger");  //l4 = new JLabel("Choose your Drink");  //l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\5.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  // b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  // ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  // p2.add(l4); // p2.add(b1);  // p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  // p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  // g.add(b1);  //g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  //b1.addActionListener(a);  //b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b3.isSelected()) {  total += LargeFries;  }  else if (b4.isSelected()) {  total += Coleslaw;  }  total += MingleBucket;  KFCFrame.ItemNames.add("Mingle Bucket");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }  } |   **KENTUCKY COMBO FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **MingleBucket** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int MingleBucket = 1200;  private int LargeFries = 150;  private int Coleslaw = 50;   MingleBucket(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  // Sp1 = new JPanel(new FlowLayout());  // Sp2 = new JPanel(new FlowLayout());  //b1 = new JRadioButton("Pepsi");  //b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Large Fries");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Mingle Bucket");  lPrice = new JLabel("1200");  l3 = new JLabel("Mingle Bucket, Wings to Suffice your Hunger");  //l4 = new JLabel("Choose your Drink");  //l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\5.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  // b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  // ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  // p2.add(l4); // p2.add(b1);  // p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  // p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  // g.add(b1);  //g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  //b1.addActionListener(a);  //b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b3.isSelected()) {  total += LargeFries;  }  else if (b4.isSelected()) {  total += Coleslaw;  }  total += MingleBucket;  KFCFrame.ItemNames.add("Mingle Bucket");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  } |   **DUO BOX FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **DuoBox** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int ExtremeDuoBox = 850;  private int ChickenPiece = 150;  private int Coleslaw = 50;   DuoBox(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  // Sp1 = new JPanel(new FlowLayout());  //Sp2 = new JPanel(new FlowLayout());  //b1 = new JRadioButton("Pepsi");  //b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Chicken Piece");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Extreme DUO Box");  lPrice = new JLabel("850");  l3 = new JLabel("Two Zinger Burgers, Large Fries, two Chicken Pieces and 1.5 Liter Drink");  //l4 = new JLabel("Choose your Drink");  //l5 = new JLabel("Extra Cheese");  // l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\4.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  b1l = new JLabel("Coleslaw 50 Rupees,Chicken piece = 150 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  // ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  // p2.add(lCustom);  // p2.add(l4); // p2.add(b1);  // p2.add(b2);  p2.add(b3);  //p2.add(b1l);  p2.add(b4);  p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  // g.add(b1);  //g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  //b1.addActionListener(a);  //b2.addActionListener(a);  //b3.addActionListener(a);  //b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b3.isSelected()) {  total += ChickenPiece;  }  else if (b4.isSelected()) {  total += Coleslaw;  }  total += ExtremeDuoBox;  KFCFrame.ItemNames.add("Duo Box");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }  } |   **ZINGER COMBO FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **ZingerCombo** extends **JFrame**{  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int ZingerCombo = 500;  private int Cheese = 50;  private int Coleslaw = 50;  private int Pepsi = 0;  private int Miranda = 0;   ZingerCombo(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  Sp1 = new JPanel(new FlowLayout());  Sp2 = new JPanel(new FlowLayout());  b1 = new JRadioButton("Pepsi");  b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Chicken Piece");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel("Zinger Combo");  lPrice = new JLabel("500");  l3 = new JLabel("Zinger Burger with Fries and 300ml Drink");  l4 = new JLabel("Choose your Drink");  l5 = new JLabel("Extra Cheese");  l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\7.jpg");  lmp = new JLabel(ic);  lCustom = new JLabel("Customize your Order");  b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  p1.add(lPrice);  p1.add(l3);  p2.add(lCustom);  p2.add(l4);  p2.add(b1);  p2.add(b2);  p2.add(b3);  p2.add(b1l);  p2.add(b4);  //p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  p2.add(b2l);  p3.add(B);  p3.add(back);  g.add(b1);  g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  b1.addActionListener(a);  b2.addActionListener(a);  b3.addActionListener(a);  b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {   int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b1.isSelected()){  total += Pepsi;  }  if (b2.isSelected()){  total += Miranda;  }  if (b3.isSelected()){  total += Cheese;  }  if (b4.isSelected()){  total += Coleslaw;  }   total += ZingerCombo;  KFCFrame.ItemNames.add("Zinger Combo");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }  }  } |   **ZINGER STACKER COMBO FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener;  public class **ZingerStackerCombo** extends **JFrame** {  private JPanel p1,p2,p3,Sp1,Sp2,p4;  private JRadioButton b1,b2,b3,b4;  private JButton B,back;  private JLabel l1,lPrice,l3,l4,l5,l6,lmp,lCustom;  private JLabel b1l,b2l;  private int ZingerStackerCombo = 790;  private int CornStick = 150;  private int Coleslaw = 50;   ZingerStackerCombo(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel();  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p4 = new JPanel(new FlowLayout());  // Sp1 = new JPanel(new FlowLayout());  //Sp2 = new JPanel(new FlowLayout());  //b1 = new JRadioButton("Pepsi");  //b2 = new JRadioButton("Miranda");  b3 = new JRadioButton("Corn Stick");  b4 = new JRadioButton("Coleslaw");  B = new JButton("ADD TO CART");  back = new JButton("Back");  l1 = new JLabel(" Zinger Stacker Combo");  lPrice = new JLabel("790");  l3 = new JLabel("\n"+"Zinger Stacker, with Large Fries,300 ml Drink");  //l4 = new JLabel("Choose your Drink");  //l5 = new JLabel("Extra Cheese");  //l6 = new JLabel("Add Ons");  ImageIcon ic = new ImageIcon("C:\\Users\\Abdullah\\IdeaProjects\\GUIProject\\9.jpg");  lmp = new JLabel(ic);  //lCustom = new JLabel("Customize your Order");  // b1l = new JLabel("Each addOns for 50 Rupees");  b2l= new JLabel("Deal's Price in Rupees");  // ButtonGroup g = new ButtonGroup();  p1.add(lmp);  p1.add(l1);  //p1.add(lPrice);  p1.add(l3);  //p2.add(lCustom);  // p2.add(l4);  //p2.add(b1);  //p2.add(b2);  //p2.add(b3);  //p2.add(b1l);  // p2.add(b4);  // p2.add(b1l);  //p2.add(b2l);  p2.add(b2l);  p2.add(lPrice);  //p2.add(b2l);  p3.add(B);  p3.add(back);  // g.add(b1);  //g.add(b2);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  //add(p4,BorderLayout.SOUTH);  Listener4 a = new Listener4();  //b1.addActionListener(a);  //b2.addActionListener(a);  //b3.addActionListener(a);  //b4.addActionListener(a);  B.addActionListener(a);  back.addActionListener(a);  }   class **Listener4** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {  int total = 0;   if (ae.getActionCommand().equalsIgnoreCase("Add To Cart")) {  if (b3.isSelected()) {  total += CornStick;  }  else if (b4.isSelected()) {  total += Coleslaw;  }  total += ZingerStackerCombo;  KFCFrame.ItemNames.add("Zinger Stacker Combo");  KFCFrame.ItemPrices.add(total);  JOptionPane.showMessageDialog(new JFrame(), "Item Added to Cart");  //JOptionPane.showMessageDialog(new JFrame(), "Total Krunch Combo" + "\n" + total);  }   else if (ae.getActionCommand().equalsIgnoreCase("Back")) {  KFCFrame kf = new KFCFrame();  setVisible(false);  }  }   } } |   **CART FRAME CLASS**   |  | | --- | | import javax.swing.\*; import javax.swing.table.DefaultTableModel; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.io.FileNotFoundException; import java.io.FileOutputStream; import java.io.IOException; import java.io.ObjectOutputStream; import java.util.ArrayList;  public class **CartFrame** extends **JFrame** {  private JButton generateBill,orderFinal;  private JTextField bill;  private JTextArea Address;  private JTable Summary;  private DefaultTableModel Model;  private JLabel Bill;  private JPanel p1,p2,p3;  private JScrollPane s;  // private String [] A = {"Item","Prices"};  //private String [][] Aa = new String [KFCFrame.ItemNames.size()][KFCFrame.ItemPrices.size()];    CartFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  Model = new DefaultTableModel();  //Model.addColumn("Item");  //Model.addColumn("Price");  /\*String[][] array = new String[KFCFrame.ItemNames.size()][];  for (int j = 0; j < KFCFrame.ItemNames.size(); j++) {  ArrayList<String> row = KFCFrame.ItemNames;  array[j] = row.toArray(new String[row.size()]);  }\*/  Summary = new JTable(Model);  //Summary;   Summary.setBounds(20, 20, 20, 20);  s = new JScrollPane(Summary);  s.setBounds(80,80,80,80);  generateBill = new JButton("Generate Bill");  orderFinal = new JButton("Place Order");  bill = new JTextField(10);  Address = new JTextArea("Delivery Address",40,40);  Address.setEditable(false);  Bill = new JLabel("Total Bill");  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  p3 = new JPanel(new FlowLayout());  p1.add(Bill);  p1.add(bill);  p1.add(generateBill);  p2.add(s);  p2.add(Address);  p3.add(orderFinal);  add(p1,BorderLayout.NORTH);  add(p2,BorderLayout.CENTER);  add(p3,BorderLayout.SOUTH);  Listener8 a = new Listener8();  generateBill.addActionListener(a);  orderFinal.addActionListener(a);  }   class **Listener8** implements **ActionListener**{  Customer c;  public void **actionPerformed**(ActionEvent e) {  ArrayList<Customer> custom1List = ReadAllData.readAllData();  Customer CC;  if (e.getActionCommand().equalsIgnoreCase("Generate Bill")) {   for (int i = 0; i < KFCFrame.ItemNames.size(); i++) {  String a = KFCFrame.ItemNames.get(i);  int c = KFCFrame.ItemPrices.get(i);  int b = KFCFrame.Total();  // Address.append(a + "\n");  String billc = Integer.toString(b);  bill.setText(billc);   custom1List = ReadAllData.readAllData();  for (int k = 0; k < custom1List.size(); k++) {  String chk = LoginFrame.Jt1.getText();  CC = custom1List.get(k);  if (CC.getEmail().equalsIgnoreCase(chk)) {  //ArrayList<String> HistoryArray = new ArrayList<>();  Address aa = CC.getAddress();  Address.setText("DELIVERY ADDRESS"+"\n"+"Area :" + aa.getArea() + "\n" + "House No :" + aa.getHouseNo() + "\n" + "Street :" +aa.getStreet() + "\n" + "City : " +aa.getCity() + "\n" + "City Code : " + aa.getCityCode());  }  }  }  Model.addColumn("Item",KFCFrame.ItemNames.toArray());  Model.addColumn("Price",KFCFrame.ItemPrices.toArray());  generateBill.setEnabled(false);  //Summary(KFCFrame.ItemNames.toArray(),KFCFrame.ItemPrices.toArray());  //Address da = c.getAddress();  //Address.setText(da.getArea()+ "\n" + da.getHouseNo()+ "\n" +da.getStreet()+ "\n" + da.getCity() + "\n" + da.getCityCode());  }  else if (e.getActionCommand().equalsIgnoreCase("Place Order")) {  JOptionPane.showMessageDialog(new JFrame(), "OrderPlaced");  try {  custom1List = ReadAllData.readAllData();  for (int i = 0; i < custom1List.size(); i++) {  String chk = LoginFrame.Jt1.getText();  CC = custom1List.get(i);  if(CC.getEmail().equalsIgnoreCase(chk)){  ArrayList<String> HistoryArray = new ArrayList<>();  // aa = CC.getAddress();  //Address.setText(aa.getArea()+ "\n" + aa.getHouseNo()+ "\n" +aa.getStreet()+ "\n" + aa.getCity() + "\n" + aa.getCityCode());  // Thread.sleep(1000);  if(!(bill.getText().equals(""))){  HistoryArray.add(bill.getText());  Address deliverlyAddress = CC.getAddress();  History H = new History(HistoryArray,deliverlyAddress);  //H.setPreviousOrders(HistoryArray);  //CC.getHistory().setPreviousOrders(HistoryArray);  CC.setHistory(H);  }  // custom1List.add(CC);  ObjectOutputStream outputStream;  outputStream = new ObjectOutputStream(new FileOutputStream("BillHistory.ser"));  for (int j = 0; j < custom1List.size(); j++) {  outputStream.writeObject(custom1List.get(i));  }  outputStream.close();  }  }   LocationFrame lf =new LocationFrame();  lf.setVisible(true);  setVisible(false);   } catch (FileNotFoundException e1) {  System.out.println("File not Found");  } catch (IOException exp) {  System.out.println("IO Exception while opening file");  }  }  }  }    } |   **HISTORY FRAME CLASS**   |  | | --- | | import javax.swing.\*; import javax.swing.table.DefaultTableModel; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.io.IOException; import java.util.ArrayList;  public class **HistoryFrame** extends **JFrame** {  private JButton display,Back;  private JTextArea area;  private JLabel history;  private JPanel p1,p2;  private JTable show;  private DefaultTableModel model;  private JScrollPane s;   HistoryFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  model = new DefaultTableModel();  show = new JTable(model);  show.setBounds(20, 20, 20, 20);  s = new JScrollPane(show);  s.setBounds(80,80,80,80);  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  display = new JButton("Generate History");  area = new JTextArea(30,30);  history = new JLabel("Previous Orders ");  Back = new JButton("Back");  p1.add(history);  //p1.add(area);  p1.add(s);  p2.add(display);  p2.add(Back);  add(p1,BorderLayout.CENTER);  add(p2,BorderLayout.SOUTH);  Listener9 a = new Listener9();  display.addActionListener(a);  Back.addActionListener(a);  }   class **Listener9** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae){  if(ae.getActionCommand().equalsIgnoreCase("Generate History")){  String a = LoginFrame.Jt1.getText();  ArrayList<String> s = new ArrayList<>();  //ArrayList<Address> add = new ArrayList<>();  try{  ArrayList <Customer> c = ReadHistory.readAllData();  //ArrayList <String> h = ReadHistory.readAllData();  for(int i = 0; i<c.size(); i++){  if(!a.equals("")){  if(( c.get(i).getEmail().equals(a))) {  String p = c.get(i).getHistory().getPreviousOrders().get(i);  // History ph = c.get(i).getHistory();  // ph.getPreviousOrders().get(i);  s.add(p);  }  model.addColumn("Previous Orders",s.toArray());  display.setEnabled(false);  if (!(display.isEnabled())){  JOptionPane.showMessageDialog(new JFrame(),"History Generated");  }  //Address aa = ph.getA();  //add.add(aa);  //area.setText(ph.getPreviousOrders().get(i));  //model.addColumn("Previous Orders");  //display.setEnabled(false);  /\* if (!(display.isEnabled())){  JOptionPane.showMessageDialog(new JFrame(),"History Generated");  }   // area.append(p);\*/  }  }  //model.addColumn("Previous Orders",s.toArray());  // model.addColumn("Address",add.toArray());  //display.setEnabled(false);  //if (!(display.isEnabled())){  // JOptionPane.showMessageDialog(new JFrame(),"History Generated");  //}    }catch (IndexOutOfBoundsException p){  System.out.println("ArrayOut of Bounds Exception");  }  }  else if(ae.getActionCommand().equalsIgnoreCase("Back")){   LocationFrame lf = new LocationFrame();  lf.setVisible(true);  setVisible(false);  }  }  } } |   **UPDATE FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.io.\*; import java.util.ArrayList;  public class **UpdateFrame** extends **JFrame** implements **Serializable** {  private JButton b1,b2;  private JLabel email,ChangeName;  private JTextField ChangeNamet,emailt;  private JPanel p1,p2;   UpdateFrame(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new BorderLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel(new FlowLayout());  p2 = new JPanel(new FlowLayout());  b1 = new JButton("Enter");  b2 = new JButton("Back");  email = new JLabel("Enter Email");  ChangeName = new JLabel("Change First Name");  emailt = new JTextField(20);  ChangeNamet = new JTextField(20);  p1.add(email);  p1.add(emailt);  p1.add(ChangeName);  p1.add(ChangeNamet);  p2.add(b1);  p2.add(b2);  add(p1,BorderLayout.CENTER);  add(p2,BorderLayout.SOUTH);  ListenerUpdateFrame up = new ListenerUpdateFrame();  b1.addActionListener(up);  b2.addActionListener(up);   }  class **ListenerUpdateFrame** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae) {  if (ae.getActionCommand().equalsIgnoreCase("Enter")) {  if(email.getText().equals("") || ChangeNamet.getText().equals("")){  JOptionPane.showMessageDialog(new JFrame(),"Fields Empty");  return;  }  // Customer C;  ArrayList <Customer> clist = ReadAllData.readAllData();  for(int i =0; i<clist.size(); i++){  if(clist.get(i).getEmail().equals(emailt.getText())){  String a = ChangeNamet.getText();  clist.get(i).setFirstname(a);  }  }  try {   ObjectOutputStream outputStream;  outputStream = new ObjectOutputStream(new FileOutputStream("Cs.ser"));  for (int i = 0; i < clist.size(); i++) {  outputStream.writeObject(clist.get(i));  }  outputStream.close();  } catch (FileNotFoundException e1) {  System.out.println("File not Found");  } catch (IOException exp) {  System.out.println("IO Exception while opening file");  }  JOptionPane.showMessageDialog(new JFrame(),"Name Updated");  }  if (ae.getActionCommand().equalsIgnoreCase("Back")) {  LocationFrame kf = new LocationFrame();  setVisible(false);  }  }   } } |   **FORGET FRAME CLASS**   |  | | --- | | import javax.swing.\*; import java.awt.\*; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import java.io.FileNotFoundException; import java.io.FileOutputStream; import java.io.IOException; import java.io.ObjectOutputStream; import java.util.ArrayList;  public class **ForgetPass** extends **JFrame** {  JPanel p1,p2;  JLabel l1,l2;  JButton change,back;  JTextField t1,tp1;   ForgetPass(){  setDefaultCloseOperation(EXIT\_ON\_CLOSE);  setSize(600,500);  setLayout(new FlowLayout());  setLocationRelativeTo(null);  setVisible(true);  p1 = new JPanel(new GridLayout(2,2));  p2 = new JPanel(new FlowLayout());  l1 = new JLabel("Email");  l2 = new JLabel("New Password");  change = new JButton("Change");  back = new JButton("Back");  t1 = new JTextField(15);  tp1 = new JTextField(15);  Listener7 a = new Listener7();  p1.add(l1);  p1.add(t1);  p1.add(l2);  p1.add(tp1);  p2.add(change);  p2.add(back);  add(p1);  add(p2);  change.addActionListener(a);  back.addActionListener(a);  }   class **Listener7** implements **ActionListener** {  public void **actionPerformed**(ActionEvent ae){  if(ae.getActionCommand().equalsIgnoreCase("Change")){  String email = t1.getText();  String newpass = tp1.getText();  if((email.equals("")) & (newpass.equals(""))){  JOptionPane.showMessageDialog(new JFrame(),"Fields Empty");  return;  }  ArrayList<Customer> custom1List = ReadAllData.readAllData();  Customer C;  for(int i=0; i< custom1List.size(); i++) {  C = custom1List.get(i);  if (C.getEmail().equalsIgnoreCase(email)) {  C.setPassword(newpass);  }  // JOptionPane.showMessageDialog(new JFrame(), "Password Changed");  try {  //custom1List.add(C);  ObjectOutputStream outputStream;  outputStream = new ObjectOutputStream(new FileOutputStream("Cs.ser"));  for(int j = 0 ; j<custom1List.size() ; j++) {  outputStream.writeObject(custom1List.get(j));  }  outputStream.close();  } catch (FileNotFoundException e1) {  System.out.println("File not Found");  } catch(IOException exp){  System.out.println("IO Exception while opening file");  }  }   JOptionPane.showMessageDialog(new JFrame(), "Password Changed");  setVisible(false);  LoginFrame lf = new LoginFrame();  lf.setVisible(true);  }   if(ae.getActionCommand().equalsIgnoreCase("Back")){  System.out.println("Location wala");  LoginFrame lf = new LoginFrame();  setVisible(false);  }  }  } } |   **RUNNER CLASS**   |  | | --- | | import java.util.ArrayList;  public class **testRunner** {  public static void **main**(String [] args) {  // ReadAllData.readAllData();  LoginFrame a = new LoginFrame();  //KFCFrame kf = new KFCFrame();  a.setVisible(true);  //trial2222 t = new trial2222();  //CartFrame cf = new CartFrame();  //cf.setVisible(true);  //displayAlldata();  //DuoBox zc = new DuoBox();  // zc.setVisible(true);  //UpdateFrame uf = new UpdateFrame();  //uf.setVisible(true); }  public static void **displayAlldata**()  {  ArrayList<Customer> CustomerList = ReadAllData.readAllData();  for(int i = 0 ; i<CustomerList.size() ; i++)  {  CustomerList.get(i).display();  }  }   } | |