ΕΠΑΝΑΛΗΠΤΙΚΗ

Hotel h1 = **new** Hotel("Bellevue");

Hotel h2 = **new** Hotel("Hermes");

Hotel h3 = **new** Hotel("CityHotel");

Hotel h4 = **new** Hotel("Panorama");

ArrayList<Hotel> hotels = **new** ArrayList<Hotel>();

hotels.add(h1);

hotels.add(h2);

hotels.add(h3);

hotels.add(h4);

**try** {

FileOutputStream fileOut = **new** FileOutputStream("hotels.ser");

ObjectOutputStream out = **new** ObjectOutputStream(fileOut);

out.writeObject(hotels);

out.close();

fileOut.close();

}

**catch**(IOException i) {

i.printStackTrace();

}

InputFrame inputFrame = **new** InputFrame();

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**public** **class** Reservation {

**protected** **int** days;

**public** Reservation(**int** days) {

**this**.days = days;

}

**public** **double** calculateCost() { //ΙΔΙΟ ΟΝΟΜΑ

**return** days\*120;

}

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**public** **class** AllInclusive **extends** Reservation{

**private** **int** meals;

**public** AllInclusive(**int** days, **int** meals) {

**super**(days);

**this**.meals = meals;

}

**public** **double** calculateCost() { // ΙΔΙΟ ΟΝΟΜΑ

**return** days\*(120 + meals\*30);

}

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**public** **class** InputFrame **extends** JFrame {

**private** JPanel panel;

**private** JPanel diamoniPanel;

**private** JPanel allInclusivePanel;

**private** JPanel buttonPanel;

**private** JLabel diamoniLabel;

**private** JLabel hotelLabel;

**private** JLabel allInclusiveLabel;

**private** JList listView;

**private** DefaultListModel model;

**private** JTextField daysField;

**private** JTextField mealsField;

**private** JButton storeButton;

**private** JButton calculateCostButton;

**private** JTextField costField;

//Gia na exei megaluteri emvelia.να πιανει και στον ακροατη

**private** ArrayList<Hotel> hotels;

**public** InputFrame() {

panel = **new** JPanel();

diamoniPanel = **new** JPanel();

allInclusivePanel = **new** JPanel();

buttonPanel = **new** JPanel();

//Ανάγνωση των ξενοδοχείων από το αρχείο Hotels.ser

File file = **new** File("Hotels.ser");

**try** {

FileInputStream fileIn = **new** FileInputStream(file);

ObjectInputStream in = **new** ObjectInputStream(fileIn);

hotels = (ArrayList<Hotel>)in.readObject();

in.close();

fileIn.close();

} **catch** (FileNotFoundException e) {

e.printStackTrace();

} **catch** (IOException e) {

e.printStackTrace();

} **catch** (ClassNotFoundException e){

e.printStackTrace();

}

listView = **new** JList();

model = **new** DefaultListModel();

Collections.*sort*(hotels);

**for**(Hotel hotel: hotels)

model.addElement(hotel.getName());

listView.setModel(model)

diamoniLabel = **new** JLabel("Stoixeia Diamonis");

hotelLabel = **new** JLabel("Hotel");

allInclusiveLabel = **new** JLabel("AllInclusive");

daysField = **new** JTextField("Hmeres Diamonis");

mealsField = **new** JTextField("Plithos Geumatwn (1,2,3)");

costField = **new** JTextField("Synoliko Kostos");

storeButton = **new** JButton("Apothikeusi Kratisis");

calculateCostButton = **new** JButton("Ypologismos Kostous");

diamoniPanel.setLayout(**new** BoxLayout(diamoniPanel, BoxLayout.***Y\_AXIS***));

diamoniLabel.setAlignmentX(Component.***CENTER\_ALIGNMENT***);

diamoniPanel.add(diamoniLabel);

hotelLabel.setAlignmentX(Component.***CENTER\_ALIGNMENT***);

diamoniPanel.add(hotelLabel);

diamoniPanel.add(listView);

diamoniPanel.add(daysField);

diamoniPanel.setBorder(BorderFactory.*createLineBorder*(Color.***black***));

allInclusivePanel.setLayout(**new** GridLayout(2,0));

allInclusivePanel.add(allInclusiveLabel);

allInclusivePanel.add(mealsField);

allInclusivePanel.setBorder(BorderFactory.*createLineBorder*(Color.***bla***

***ck***));

buttonPanel.setLayout(**new** GridLayout(2,0));

buttonPanel.add(storeButton);

buttonPanel.add(calculateCostButton);

buttonPanel.setBorder(BorderFactory.*createLineBorder*(Color.***black***));

panel.add(diamoniPanel);

panel.add(allInclusivePanel);

panel.add(buttonPanel);

panel.add(costField);

**this**.setContentPane(panel);

ButtonListener listener = **new** ButtonListener();

storeButton.addActionListener(listener);

calculateCostButton.addActionListener(listener);

**this**.setVisible(**true**);

**this**.setSize(200, 320);

**this**.setLocation(550, 200);

**this**.setTitle("Input");

**this**.setDefaultCloseOperation(JFrame.***EXIT\_ON\_CLOSE***);

**class** ButtonListener **implements** ActionListener {

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

Hotel selectedHotel = **null**;

String selectedHotelName = (String)listView.getSelectedValue(); //Αυτο καταλαβαινει τι επιλεξαμε απο τν λιστα

**for**(Hotel hotel: hotels)

**if**(hotel.getName().equals(selectedHotelName))

selectedHotel = hotel;

//==//

**if**(e.getSource().equals(storeButton)) {

//Πατηθηκε το πληκτρο κρατησης

String daysText = daysField.getText();

**int** days = Integer.*parseInt*(daysText);

String mealsText = mealsField.getText();

**if**(mealsText.equals("")) {

//apli kratisi

Reservation res = **new** Reservation(days);

selectedHotel.addReservation(res);

System.***out***.println("Simple reservation added to " +selectedHotel.getName());

}

**else** {

//all inclusive

**int** meals = Integer.*parseInt*(mealsText);

AllInclusive res = **new** AllInclusive(days,meals);

selectedHotel.addReservation(res);

System.***out***.println("AllInclusive reservation added to " +selectedHotel.getName());

}

}

**else** {

//Πατηθηκε πληκτρο συνολικης χρέωσης

**double** totalCost = selectedHotel.calculateTotalCost();

String totalCostText = Double.*toString*(totalCost);

costField.setText(totalCostText);