```
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectOutputStream;
import java.util.ArrayList;
public class Main {
        public static void main(String[] args) {
                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();
        }
}
```

```
// Κλάση
public class Reservation {
        protected int days;
        public Reservation(int days) {
                this.days = days;
        }
        public double calculateCost() {
                return days*120;
        }
}
public class AllInclusinveReservation extends Reservation {
        int meals;
        public AllInclusinveReservation(int days, int meals) {
                super(days);
                this.meals = meals;
        }
        public double calculateCost() {
                return days * (120+ meals*30);
        }
}
```

```
import java.io.Serializable;
import java.util.ArrayList;
public class Hotel implements Serializable {
        private String name;
        private ArrayList<Reservation> reservations = new ArrayList<>();//'Εβαλα κρατήσεις
        public Hotel(String name) {
                this.name = name;
        }
        public String getName() {
                return name;
        public void addReservation(Reservation r){
                reservations.add(r);
        // Υπολογισμός χρεώσεων κρατήσεων
        public double calculateTotalCharge(){
                int total=0;
                for(Reservation res: reservations)
                        sum += res.calculateCost();
                return total;
        }
}
```

```
import java.awt.Color;
import java.awt.Component;
import java.awt.GridLayout;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.util.ArrayList;
import javax.swing.BorderFactory;
import javax.swing.BoxLayout;
import javax.swing.DefaultListModel;
import javax.swing.JButton;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JList;
import javax.swing.JPanel;
import javax.swing.JTextField;
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<String> listView;
        private DefaultListModel model;
        private JTextField daysField;
        private JTextField mealsField;
        private JButton storeButton;
        private JButton calculateCostButton;
        private JTextField costField;
        private ArrayList<Hotel> hotels;
        public InputFrame() {
                panel = new JPanel();
                diamoniPanel = new JPanel();
                allInclusivePanel = new JPanel();
                buttonPanel = new JPanel();
                listView = new JList<String>();
                model = new DefaultListModel<String>();
                //Ανάγνωση ξενοδοχείων από αρχείο
                File file = new File("hotels.ser");
                FileInputStream fileIn;
                try {
                        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) {
       // TODO Auto-generated catch block
        e.printStackTrace();
}
//Προσθήκη ξενοδοχείων
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.black));
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(200, 0);
this.setTitle("Input");
this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
```

```
}
        class ButtonListener implements ActionListener {
                public void actionPerformed(ActionEvent e) {
                        String selectedHotelName = listView.getSelectedValue();
                        Hotel selectedHotel = null;
                        for(Hotel h : hotels){
                                if(h.getName().equals(slectedHotelName)){
                                        selectedHotel = h;
                                        break;
                                }
                        //Βρίσκω επιλεγμένο ξενοδοχείο και κάνω add την κράτηση
                        if(selectedHotel!=null){
                                String daysText = daysField.getText();
                                int days = Integer.parseInt(daysText);// Ρητή μετατροπή σε
int
                                Reservation r;
                                if(mealsField.getText().equals("")){
                                        r = new Reservation(days);
                                }
                                else{
                                        int meals =
Integer.parseInt(mealsField.getText()); // Ρητή μετατροπή
                                        r = new AllInclusiveReservation(days, meals);
                                selectedHotel.addReservation(r);
                        }
                        else{
                                int total = selectedHotel.calculateTotalost();
                                costField.setText(Integer.toString(total));
                        }
                        else{
                                JOptionPane.showMessageDialog(null, "No hotel selected!");
                                System.out.println("No hotel selected");
                        }
                }
        }
}
```