Practical 4(Ticket GUI)

**import** javax.swing.\*;

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

**public** **class** TicketBookingGUI **extends** JFrame {

**private** JTextField nameField;

**private** JTextField ageField;

**public** TicketBookingGUI() {

setTitle("Ticket Booking");

setSize(300, 200);

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

JPanel panel = **new** JPanel();

panel.setLayout(**null**);

JLabel nameLabel = **new** JLabel("Name:");

nameLabel.setBounds(30, 30, 80, 25);

panel.add(nameLabel);

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

nameField.setBounds(120, 30, 150, 25);

panel.add(nameField);

JLabel ageLabel = **new** JLabel("Age:");

ageLabel.setBounds(30, 70, 80, 25);

panel.add(ageLabel);

ageField = **new** JTextField(3);

ageField.setBounds(120, 70, 50, 25);

panel.add(ageField);

JButton calculateButton = **new** JButton("Calculate");

calculateButton.setBounds(100, 110, 100, 30);

calculateButton.addActionListener(**new** ActionListener() {

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

**int** age = Integer.*parseInt*(ageField.getText());

**double** ticketPrice = calculateTicketPrice(age);

JOptionPane.*showMessageDialog*(**null**, "Ticket Price: $" + ticketPrice);

}

});

panel.add(calculateButton);

add(panel);

setVisible(**true**);

}

**private** **double** calculateTicketPrice(**int** age) {

**if** (age < 5) {

**return** 0; // Children under 5 travel for free

} **else** **if** (age >= 5 && age <= 12) {

**return** 10; // Child fare for ages 5-12

} **else** **if** (age >= 60) {

**return** 15; // Senior citizen fare for ages 60+

} **else** {

**return** 20; // Standard fare for adults

}

}

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

**new** TicketBookingGUI();

}

}