

Lab5A: Brownies House (GUI)

Lab Exercise 5A: GUI and Event Handling 1 & II

- This lab exercise is divided into TWO stages – Stage 1 and Stage 2.
- You need to complete prior stages without errors before you can proceed to the respective next stages.

Problem Description

A cafe named *Safeyya Brownies House* is one of the famous company that provide special brownies with different size and packaging. To meet a demand from the customer outside the area, the company decided to provide online order and delivery services. The company hired a programmer to help them to develop the order system that allows customers to choose the type of brownies, size and type of packaging required. Each type of brownies have a different size with different price (refer the table given). The system should have some graphical user interface and related event for ordering the brownies.

Type / Size	7 inch	8 inch	10 inch	12 inch
Blueberry Cheese	RM35	RM40	RM45	RM50
Choc Oreo	RM40	RM45	RM50	RM55
Rich Chocolate	RM60	RM65	RM70	RM75
Salted Caramel	RM65	RM70	RM75	RM80

Table 1 : Price for each type of brownies in different sizes.

Stage 1

1. Create a Java project named Lab5A-Stage1.
2. Define a class named `OrderScreen` that will produce the following GUI with dimension (600, 520). The interface should provide specified GUI components as shown in Figure 1. Refer to Table 1 for the details of Type of Brownies and Size of Brownies.

Note: Create an `ImageIcon` object and add it to a `JLabel` to display the image.

```
ImageIcon icon = new ImageIcon("brownies.jpg");
JLabel image = new JLabel(icon);
```

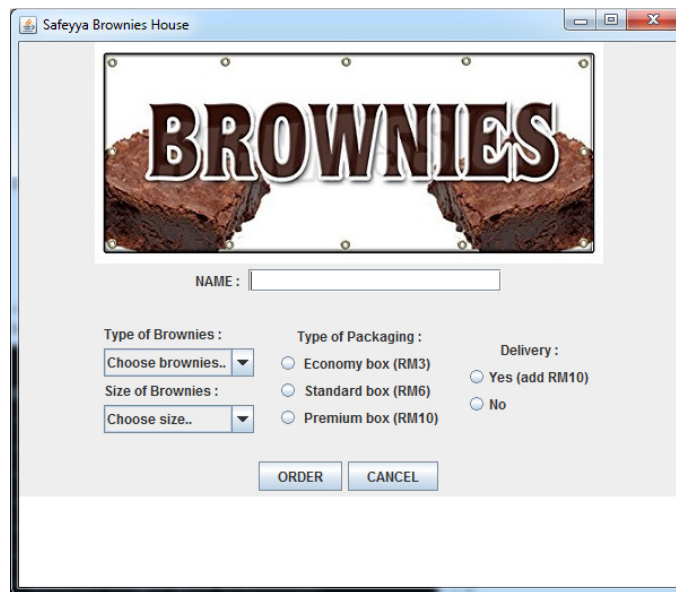


Figure 1

Note:

- At this stage you do not have to implement event handling – so, nothing happens when “ORDER” and “CANCEL” button is clicked.

Stage 2

1. Create a Java project named Lab5A-Stage2.
2. Copy class `OrderScreen` from your Stage 1,
3. Modify the class so that when a customer enters the name and the type of brownies, size of brownies, packaging also delivery is selected, it will produce the following GUI. Otherwise the form is not completed.

If the form completed and “ORDER” button clicked, the output will display in the text area at the bottom of the frame as follows.

The screenshot shows the 'Safeyya Brownies House' application window. At the top is a banner with the word 'BROWNIES' in large, stylized letters over an image of brownies. Below the banner is a text field for 'NAME' containing 'Hayfa Syakirah'. There are three sections of options: 'Type of Brownies' with a dropdown menu set to 'Rich Chocolate'; 'Type of Packaging' with three radio buttons, 'Standard box (RM6)' being selected; and 'Delivery' with two radio buttons, 'Yes (add RM10)' being selected. At the bottom of these sections are 'ORDER' and 'CANCEL' buttons. Below the buttons, a text area displays the following message: 'Welcome Hayfa Syakirah. You ordered: Rich Chocolate 8 inch. Packed in Standard box. Your total order is RM81.00. Thank you.'

Figure 3


If the “CANCEL” button clicked, all the data selected and the name filled before will be reset (Figure 1).

If the form is not completed when the “ORDER” button is clicked as in the following figure, message “The form is not complete. TQ” will be displayed.

The screenshot shows the 'Safeyya Brownies House' application window. The 'NAME' field is empty. 'Type of Brownies' is set to 'Blueberry cheese'. 'Type of Packaging' has 'Economy box (RM3)' selected. 'Delivery' has 'Yes (add RM10)' selected. 'Size of Brownies' is set to '7 inch'. The 'ORDER' and 'CANCEL' buttons are visible. At the bottom, a text area displays the message: 'The form is NOT COMPLETE. TQ'.

This screenshot is identical to the previous one, showing the 'Safeyya Brownies House' application window with the same incomplete form and the error message 'The form is NOT COMPLETE. TQ'.

Safeyya Brownies House



NAME :


Type of Brownies :

Type of Packaging :
☐ Economy box (RM3)
☐ Standard box (RM6)
☐ Premium box (RM10)

Delivery :
☐ Yes (add RM10)
☐ No

The form is NOT COMPLETE. TQ

Safeyya Brownies House



NAME :

Type of Brownies :

Type of Packaging :
☒ Economy box (RM3)
☐ Standard box (RM6)
☐ Premium box (RM10)

Delivery :
☐ Yes (add RM10)
☐ No

The form is NOT COMPLETE. TQ