National University of Computer and Emerging Sciences, Lahore Campus				
	Course:	**Software for Mobile Devices**	**Course Code:**	**CS 0439**
	Section:	**A,B**	**Marks:**	**30**
	Submission deadline:	**25-10-2025 (11:59 pm)**	**Weight**	
	Assignment:3		**Page(s):**	
Instruction/Notes:	**1. "Submit your app/src folder compressed as a .zip file" named as your roll number., i.e., 22L-1111.zip** **2. You are not allowed to copy solutions from other students. We will check your code for plagiarism using plagiarism checkers. If any sort of cheating is found, heavy penalties will be given to all students involved.** **3. Late submission of your solution is not allowed. After the deadline, no submission will be accepted.**			

Assignment 3 – Fasty Bites (Fragments and Custom List View)

Objective

This assignment extends your previous *Fasty Bites* app by introducing **Fragments** and a **Custom ListView**.

You will now convert your project into a **single-activity, multi-fragment** app that contains both the menu and summary screens within the same activity.

The main goal is to understand how to build and display a **custom list** using an adapter, and how to **pass data between fragments through the activity**.

Task Description

In this assignment, you will create a **Menu Fragment** and a **Summary Fragment**, both hosted inside a single activity (e.g., `MainActivity`).

The **Menu and Summary Fragment** will follow the same design from Assignment 1&2.

- ★ The activity will contain a **fragment container** (e.g., a `FrameLayout`) that initially loads the **Menu Fragment** when the app starts.
- ★ The **Menu Fragment should** display the food items using a **Custom ListView** implemented through a **Custom Adapter.**
- ★ Each row from your previous assignment's menu activity will now become a **separate list item** in the ListView.

Every item should include:

- ★ An **ImageView** showing the item picture.
- ★ A **TextView** displaying the item name.

- ★ A **TextView** for the item's price.
- ★ Two **Buttons** ("+" and "–") to increase or decrease quantity.
- ★ A **TextView** to show the selected quantity.

Below the list, include the same input fields as in Assignment 2:

- ★ Name
- ★ Order Type (Pickup / Delivery)
- ★ Address (only shown for Delivery; otherwise show "N/A")
- ★ Payment Method (Cash / Card)

On Pressing **"Order Now"** button.

- ★ All the user and order details (customer info, selected items, their quantities, and total bill) should be collected in the fragment and passed to the **activity** that hosts both fragments.
- ★ The activity will then **replace the Menu Fragment with the Summary Fragment inside the same fragment container**, effectively switching the screen view.
- ★ The activity should **send the same collected order data to the Summary Fragment** so that it can retrieve and display the information (e.g., customer name, order type, selected items, and total bill) immediately when it loads.

In the **Summary Fragment**, which can reuse the same layout design you created in the *summary activity* from Assignment 2, retrieve the data passed from the activity and display it neatly on the screen exactly like in assignment 2.

Validation Rules

Before loading the Summary Fragment, ensure that all necessary validations like the following are performed:

- If **no items** are selected, show an AlertDialog: *"Please add at least one item."*
- If **Delivery** is selected but **Address** is empty, show an AlertDialog: *"Please enter delivery address."*
- If **Pickup** is selected, automatically set the Address field to "N/A."
- Perform any other relevant input checks to prevent incomplete orders.