Assignment: Grocery List Manager

Objective

In this assignment, you will create a simple grocery list manager using Python.
This task will help you practice loops, dictionaries, conditional statements, and user input, which are core concepts for beginner Python programmers.

Problem Statement

You are required to build a menu-driven Python program that allows a user to manage a grocery list from the terminal.

The program should keep running until the user chooses to exit.

Requirements

Your program must display a menu with the following options:

1. Add an item

   o Ask the user to enter:

      ▪ Item name

      ▪ Quantity

      ▪ Price

   o Store the item in a dictionary

   o Calculate the total cost for that item

2. View all items

   o Display all grocery items along with their total prices

   o If the list is empty, show an appropriate message

3. Remove an item

   o Ask the user for the item name

   o Remove the item if it exists

   o Display a message if the item is not found

4. Calculate total bill

   o   Calculate and display the total cost of all items in the grocery list

5. Exit the program

   o   Stop the program when the user chooses to exit

Rules & Constraints

- Use only basic Python concepts covered in this course

- Use:

   o   while loop

   o   if-elif-else

   o   Dictionary

   o   input() and print()

- Do not use:

   o   Classes

   o   External libraries

   o   Advanced Python features

Expected Outcome

By completing this assignment, you should be able to:

- Create and manipulate dictionaries

- Build a menu-driven program

- Handle basic calculations

- Think logically to solve a real-world problem using Python

Submission Instructions

- Submit your complete Python code

- Make sure the code runs without errors

- Add comments where necessary to explain your logic