Title: ABC Supermarket Shopping and Lottery Program

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Description: This Python script simulates a shopping experience at the ABC Supermarket. Users can interact with the program to buy products and participate in a lottery game. They are guided through a series of prompts to make purchases, and their balance is updated accordingly.

Module and Functions:

1. Import Libraries:

• random library is imported to generate random numbers for the lottery game.

2. Main Execution Block:

• Wrapped within a with open("template_behavior_{richard_kabiru}.txt", "a") as f: block to save the outputs into a text file.

3. User Input:

- name is captured as input to personalize the shopping experience.
- total_amt is captured as input to know the user's initial amount of money.

4. Product Listing:

• A dictionary products lists the available products along with their prices.

5. Lottery Ticket Purchase:

- tct_purchase captures whether the user wants to buy a lottery ticket.
- A while loop and try-except block ensure valid input.
- A random ticket number is generated and checked to determine winnings.

6. Bread Purchase:

- bread_purchase captures whether the user wants to buy bread.
- A while loop and try-except block ensure valid input.
- Total cost of bread is calculated based on the number of loaves no_of_loaves purchased.

7. Milk Purchase:

- milk_purchase captures whether the user wants to buy milk.
- A while loop and try-except block ensure valid input.
- Total cost of milk is calculated based on the number of packets no_of_pckts purchased.

8. Soda Purchase:

- A while loop and try-except block ensure valid input.
- Total cost of soda is calculated based on the number of bottles no_of_bottles purchased.

9. Cost Calculations and Output:

- The total cost of each product type and overall total cost are calculated.
- Final balance is displayed along with a thank you message.

This script effectively guides the user through a simple shopping and lottery experience, handling user input, calculating costs, and providing feedback on purchases and remaining balance.

The code is structured with each step of the shopping experience encapsulated in individual code blocks, making it relatively straightforward to follow the logic of the program. Each section of code is well-commented, explaining the purpose and functionality of the code blocks.