**Programming Exercise 1**

**Name:** Santiago Rivas

**Date Created:** May 23,2025

**Program Description:**

The program is made to simulate a cinema ticket selling system, allowing the user to buy four tickets as they want. The program requests the user how many tickets they want to buy, giving them the opportunity to get only four tickets per sale, automatically calculating the remaining tickets and how many buyers until all the tickets are sold, and giving the number of buyers.

**Functions used in the Program (list in order as they are called):**

1. **Function Name:** buy\_tickets(remaining \_tickets)

**Description:** Validates the amount requested by the user.

**Parameters:** remaining\_tickets, the number of tickets left.

**Variables:** num(int): The amount of tickets the user wants to buy.

**Logical Steps:** Request the user for a valid number of tickets. in case it is valid, how many tickets do they want, make sure it is between 1 and 4. Also, if the number of tickets requested is available, repeat the loop until it is valid.

**Returns:** Returns to the number of tickets the buyer is getting.

2. **Function Name:** sell\_tickets()

**Description:** Made to track and count how many tickets are sold and the number of buyers.

**Parameters:** Not parameters.

**Variables:** total\_tickets (int): The number of tickets left. buyers (int): The number of people who have bought tickets, as an accumulator. ticket\_boughts (int): The number of tickets being sold.

**Logical Steps:** The number of total\_tickets needs to be 20, and buyers 0. Start the loop with buyers being greater than 0. Give the number of tickets left after the sales. Subtract the number of tickets from total\_tickets after every sale. Repeat until there are no tickets left, consequently giving a message to alert users that tickets are sold out, along with the number of buyers.

**Returns:** No returns.

**Link to your repository:** https://github.com/TheSantiagoXVII/COP2373.git

A black rectangular object with a white border

AI-generated content may be incorrect.