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**Program Description:**

This program allows buyers to purchase a limited amount of tickets to a cinema, and displays the number of tickets remaining after each purchase

Functions used in the Program:

1. **Function name:** get\_tickets\_from\_buyer()

**Description:** This function creates a loop for the user to keep

giving an input for the number of tickets they want to buy until

all tickets have been sold. It also limits the user to 1 to 4 tickets,

and makes the user enter a number as a value.

**Parameters:** None

**Variables:** num\_tickets – holds the number of tickets the buyer wants

**Logical steps:**

1. create a variable that holds the input from the buyer

2. if the input is between 1 and 4 it returns the number

3. if the input is not in that range, a message pops up and starts the loop again

4. if the input is not a number, a message pops up and restarts the loop

**Returns:** num\_tickets - returns a number that is within the requirements

1. **Function name:** sell\_tickets()

**Description:** This function keeps track of the number of tickets sold,

subtracts it from the total until all tickets sell and the loop ends

**Parameters:** None

**Variables:**

1. total\_tickets - a hardcoded number of tickets available from the start

2. tickets\_left - keeps track of the tickets after a purchase

3. num\_buyers - an accumulator for the number of purchases

4. tickets\_wanted - calls the get\_tickets\_from\_buyer() function to start

the loop and creates a variable that can be subtracted from the total

**Logical steps:**

1. Create a variable that holds the hardcoded number of tickets

2. Set the tickets left after a purchase to equal total tickets

3. Display the number to the user

4. Create a loop that restarts until all tickets are sold

5. create an instance of the get\_tickets\_from\_buyer() function

6. Subtract tickets wanted from tickets available and add one to the number of buyers

7. Print messages that display the number of buyers and that all tickets have been sold.

**Returns:** None

**Logical steps**: The get\_tickets\_from\_buyer function is called first to then be used in the

sell\_tickets function.

Link to repository: https://github.com/AbriannaJohnson/COP2373.git

Output screenshot:

A screenshot of a computer program

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