**Movie Ticket Assignment**

**Name:** Austin Wilson

**Date Created:** 1/19/25

**Program Description:** Asks customers to purchase limited to 1-4 out of 20 tickets. When the 20 tickets are all gone, the program will tell us the number of buyers.

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

1. **Function Name:** ask\_ticket(tickets\_left)

**Description:** function for asking number of tickets, storing purchase data, and creating the 1-4 boundary for the purchases.

**Parameters:** tickets\_left: number of tickets remaining, passed into function whenever the user is asked amount to buy,

**Variables:** tickets\_question: Asks user what amount of tickets they wish to purchase 1-4 then stores the entered value.

**Logical Steps: “**while True:” function used to loop the question and display the number of tickets available (tickets\_left). If the user enters a value outside of 1-4 the function asks for a valid number and inform the user the amount of tickets left. Once a correct number is entered the function updates the remaining tickets (tickets\_left) by subtracting the tickets bought by user.

**Returns:** tickets\_question: The number of tickets user is purchasing. Tickets\_left: number of tickets after each purchase

2. **Function Name:** main()

**Description:** Completes the program and handles situations in which user enters ticket value more than tickets left as well as showing the amount of tickets purchased and remaining after each purchase

**Variables:** ticket\_amount: total number of tickets starting with 20

buyer\_amount: total number of buyers starting at 0

**Logical Steps:**

While ticket\_amount > 0 loops until there are no more tickets

Calls ask\_ticket function to request number of tickets and updates the count

For each purchase the tickets remaining and buyer amounts are updated

Prints number of tickets bought and left after purchase

Once ticket\_amount reaches 0, program exits loop and prints total number of buyers.

**Link to your repository:** <https://github.com/awilso70/COP2373-Cinema-Tickets-AustinWilson1>