**Name: Khoa Duong  
Date Created: January 15, 2025**

**Program Description:  
This program manages ticket sales by allowing users to purchase a limited number of tickets (1-4 per transaction) until all tickets are sold out. It keeps track of the total number of tickets remaining and counts the total number of buyers.**

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

1. **Function Name: main  
   Description: This function manages the ticket-selling process by prompting the user to purchase tickets and updating the number of remaining tickets. Parameters: None  
   Variables:**
   * **total\_tickets (int): Holds the total number of tickets available for sale.**
   * **total\_buyers (int): Tracks the total number of buyers. Logical Steps:**
   1. **Initialize total\_tickets to 20 and total\_buyers to 0.**
   2. **While tickets are available, display the number of remaining tickets.**
   3. **Call get\_ticket\_request() to ask the user how many tickets they want to purchase.**
   4. **If the requested tickets are available, subtract from total\_tickets and increment total\_buyers.**
   5. **If not enough tickets are available, inform the user.**
   6. **Once all tickets are sold, display the total number of buyers.  
      Returns: None**
2. **Function Name: get\_ticket\_request  
   Description: Prompts the user to enter how many tickets they would like to purchase and validates the input. Parameters: None  
   Variables:**
   * **tickets (int): Holds the user's input for the number of tickets to purchase.  
     Logical Steps:**
   1. **Prompt the user to enter a number between 1 and 4.**
   2. **Validate the input to ensure it is an integer within the specified range.**
   3. **If invalid, prompt the user again.**
   4. **Return the valid number of tickets.  
      Returns: tickets (int) - Number of tickets the user wants to purchase.**

**Logical Steps:**

1. **Call the main function.**
2. **Within main, call get\_ticket\_request to handle user input.**