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Program Description: This program simulates a simple ticket sale application.

It allows for multiple buyers and has a limit to 4 tickets per buyer. To initiate a sale the

Program prompts the user for an input. After it receives a user input it verifies

The validity of the input. If the input is invalid it will print a message to the user stating

That the input was invalid and then reprompts the user for a valid input. If the input is

Valid, the program updates the ticket value and prints the current amount of tickets

Remaining. This process loops until all tickets are sold. Once all tickets are sold, the

Program will print the total number of users it sold tickets to.

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

1.

Function Name: Main

Description: This program contains the loop, user interaction, and data management.

Parameters: None

Variables: tickets\_remaining: Stores the value for the remaining tickets.

total\_buyers : stores the data for the amount of users that purchased tickets.

ticket\_buy: temporarily stores the value of tickets a user wishes to purchase.

Logical Steps:

Set tickets\_remaining to 20 and total\_buyers to 0

Begin a while loop that continues while tickets\_remaining > 0

Use try-except to obtain user input and convert to int. If ValueError occurs reprompt user

And request a valid int.

Check ticket\_buy to make sure value is 1-4, if not print error message and reprompt user.

Check if ticket\_buy > tickets\_remaining. If so, print the appropriate error message.

If input is value tickets\_remaining = (tickets\_remaining - ticket\_buy)

And total\_buyers = total\_buyers+1

Print confirmation and new value for tickets\_remaining

If while loop con is not met end loop.

Print total\_buyers

Returns:None

<https://github.com/RoarinThundah/COP2373_Jaeger/blob/main/Exercise%20%231>

