Technical Design Document

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Program Description: This program will first start by asking if the person would like to buy 1-4 tickets, and then would announce that all tickets are sold out after 20 are sold.

Logical Steps:

1. The first step is to ask if the user would like to buy tickets. If no, then the it would ask the next person. If yes, then the program will continue.
2. The function will continue asking if they would like to buy 1-4 tickets, using an if statement to make sure that they buy 1-4 tickets.
3. Then another function will be used to add up the amount asked to the accumulator, and make sure that it does not go over 20. If it goes over 20, then the amount would be pushed back saying how much they can actually buy.
4. After it hits 20, the program will say that all tickets have been sold out.

Variables:

1. TickAcc- is the total amount of tickets sold and makes sure that it is 20
2. TickAdd- is the added amount when asking how many tickets want to be sold.
3. Tickask- asks if the user wants to buy tickets

Functions:

Tickmain

Description- This would ask the user if they would like to buy tickets using an if they would like to buy tickets. If yes then it would proceed, if no then it would loop back a single if they would like to buy tickets. Next, it would ask the user to buy 1-4 tickets and then would run the Tickmath function. If the parameters are satisfied that tickets are equal to 20, then it would print that all tickets have been sold out.

Parameters- (/)

Returns-

Tick math

Description- This would first add the TickAcc and TickAdd to make sure that it doesn’t go over 20. If it does it would loop back to ask for another ticket amount that is the appropriate amount. If it does go through it returns it as the true amount.

Parameters- TickAcc, TickAdd

Returns- TickAcc

Link to repository: ——