

OOPs lab Exercise-4 on 13/02/26

observation:

- 1) create a class called Ticket with the datamembers ticket number, row, seat number and sold status. write functions for the following:
 - a) to generate unique ticket number for each ticket, start from 1000.
 - b) to check whether the ticket has been sold
 - c) to update the ticket status to true, based on the user's choice (if the user is ok with row and seat number then book otherwise don't book)
 - d) to print the ticket details in neat format
- 2) create a class called Patient with data members patient ID, Name, Age and Disease and create an array of patients and perform the following operations on it:
 - a) find Patients above 60 years
 - b) find the total number of patients suffering from a particular disease
 - c) search for the patient with particular disease.
 - d) sort the patients based on ID

Execution:

modify the Q1 to include the following functions:

- e) int countseat()- to count and return the number of seat numbers which are sold
- f) void Disp(int seatcount)-to display the status of the show based on the count of the sold seat number.(if the count is >50, then print proceed else print cancel)

Spot:

modify the Q2 to include the following attributes and functions:

totalPatients – (shared counter for all patients)
seniorAgeLimit– (this limit is shared among all patients and the limit should be constant)
represents the age above which a patient is considered senior

functions:

display the count after getting each patient details

Find and display all patients whose age is **above the senior age limit**