nevanshu Surana 10-23, 1032210755 Batch - CI pocc Lab Assignment 4A Problem Statement: Develop an object-oriented program in c++ to create a class
Hotel for hotel booking system. The class hotel has data members: string cust name, int cust-id int income string city, and string room-type and has a default constructor. It has function accept () and display() to output data member values. The class Hotel has member functions as: getage(), getincome(), getcity(), get room\_type() Throw four exception as. 1. If the age is not between 19 and 55 2. If income is not between 80000 and 100000 3. If city is not Pune or Mumbai. 4. If room type is not delun or super delun. Use exception handling to check if above conditions are satisfi--ed (display all customer information) else print error message. If the entered data is valid store the data in the file store such 5 records in the file. To learn try-catch block in ctt.

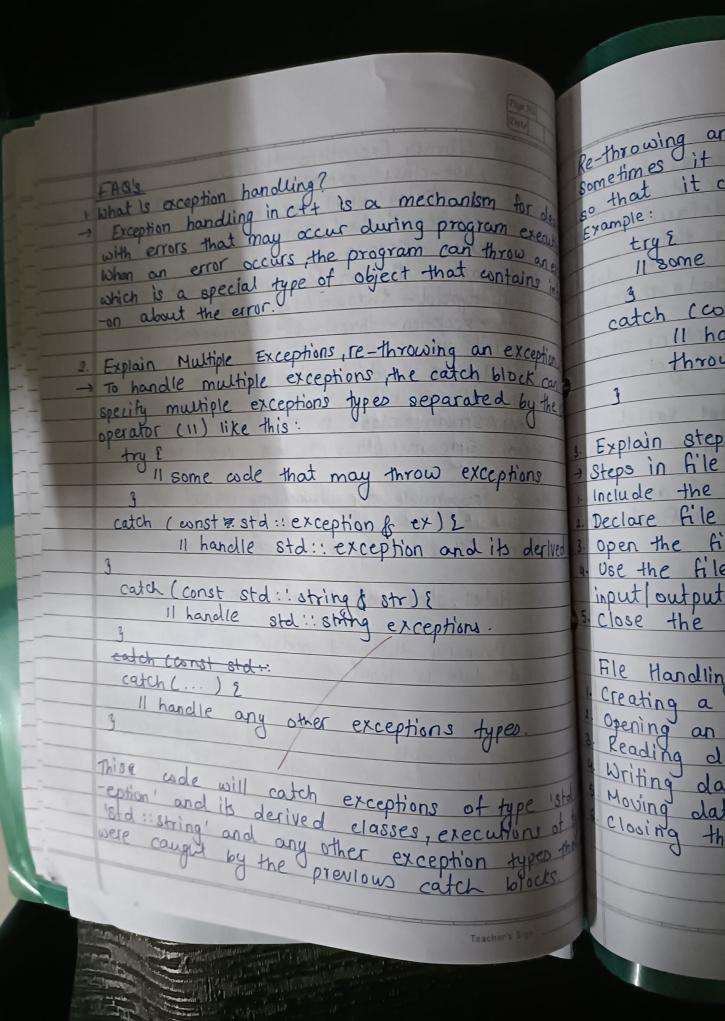
To learn try-catch block in ctt.

To learn try-catch block in ctt. To learn throw exception in Ctt.
To learn file handling concepts.

standard Libra Explain following concepts: It is a base-'what' for s Exception handling

- It indicate problems that occur during a progre Exception class 1. bad-alloc execution. - H occurs in frequently a. bad-cast - It can resolve exceptions. 3. bad-type - Allow a program to continue executing or 4. bad - exce - Notify the user of the problem and - Terminate the program in a controlled my stream class - It makes programs robust and fault tolerant of stream : stre - Remove error-handling wde from the program en - if stream: Stre Estream: Str Imain line . files. - istream : Resp Try-Catch throw block. - try: keyword try followed by braces (E3) should statements that might cause exceptions. Platform: 64 · Statements that should be skipped in case of a Input: Hotel - cetch: keyword catch · Immediately follow a try block. output: Prop One or more catch handlers for each try ble invalled da · Exception parameter enclosed in parenthesis! the transford throw followed by an operand the Conclusion: the type of exception. · can be of any type Hence the handling in object. object, then its called object, then its called of The throw operand initializes the exception por in the matching catch, handler if one is

standard Library Exceptions hierarchy
base-class exception control tis a base-class exception contains virtual function a programi exception classes derived from exception bad-alloc - thrown by new
bad-cast - thrown by dynamic-cast
bad-typeid - thrown by typekid
bad-exception - thrown by unexpected ing or olled manners stream classes and functions. lerant. of stream: stream class to write on files gram execut itstream: Stream class to read from files. Estream: Stream class to both read and write him to istream: Responsible for handling input stream. should and Platform: 64-bit Open Source Linux ase of on o Input: Hotel-class object Data Members Subjut: Properly displayed output or thrown exception if try block tence the concepts of file handling and exception rand repres randling in C++ are studied successfully Hed excep on param



throwing an exception throwing it is neccessary to rethrow an exception that it can be handled further up the can stack. ism for deal ram execution (xample: throw an exc The code that may throw an exception contains into catch (const std:: exception (cx)? 11 handle the exception n exception. throw; 11 re-throw the exception block can ed by the Explain steps required in file handling. has in file handling: eptions mude the header the fotream in the program. more file stream object. wen the file with the file stream object its derived be the file stream object with >>, << or other out output functions. lose the file. Handling: recting a new file. tining an existing file. eo. leading data from an existing file inting data to a file oving data to a specific location. type istal losing the file. types that brocks. A statistic legition for

