**ASSIGNMENT NO: 04 a**

**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() and getrrom\_type().

Throw four exceptions as :

1.If the age is not between 18 and 55.

2. If income is not between 50000 and 100000.

3.If city is not Pune or Mumbai

4. If room\_type is not delux or super delux

Use exception handling to check if above conditions are satisfied (display all customer information) else print error message.

**Objectives:**

1. To learn to create handling exceptions in C++
2. To learn try-catch block in C++
3. To learn throw exception in C++
4. To learn file handling concepts

**Theory:**

Explain following concepts

* + **Exception Handling**
  + **Try- catch-throw block**
  + **Standard Library Exceptions hierarchy**
  + **Stream classes and functions used in file handling**

# Algorithm / Class Diagram / Implementation:

Write an algorithm here.

# Platform: 64 –bit Open-source Linux

**Input:** Hotel Class object Data Members

**Output:** Properly displayed output or thrown exception if invalid data is input

**Conclusion:** Hence, the concepts of file handling and exception handling in C++ are studied successfully.

**FAQs:** write answers

1. What is exception handling?
2. Explain Multiple Exceptions, re-throwing an exception
3. Explain Steps required in File Handling.