**Assignment No: 5**

**Problem Statement:** Create User defined exception to check the following conditions and throw the exception if the criterion does not meet.

a. User stays in Pune/ Mumbai/ Bangalore / Chennai

b. User has 4-wheeler

City, Vehicle from the user and check for the conditions mentioned above. If any of the condition not met then throw the exception. If user does not enter proper input throw the exception

**Aim of Assignment:** Understand the concept of Exception handling

**Description:**

1. **Exception Handling:** Exception handling is the process of responding to the occurrence, during computation, of exceptions – anomalous or exceptional conditions requiring special processing – often disrupting the normal flow of program execution.

An exception is a problem that arises during the execution of a program. A C++ exception is a response to an exceptional circumstance that arises while a program is running, such as an

attempt to divide by zero.

Exceptions provide a way to transfer control from one part of a

program to another. C++ exception handling is built upon three

keywords: try, catch, and throw.

**• throw −** A program throws an exception when a problem shows up.

This is done using a throw keyword.

**• catch −** A program catches an exception with an exception handler at

the place in a program where you want to handle the problem. The

catch keyword indicates the catching of an exception.

**• try −** A try block identifies a block of code for which particular

exceptions will be activated. It's followed by one or more catch blocks.

**OOP Concept Used:**

1. Exception Handling

**Conclusion:** In this experiment we have learnt regarding new concepts OOP Of Exception Handling