**:Student Name :Roll No :Section**

Experiment No. 14

Lab 14 – Exception Handling in Python

**Objectives**

The main objective of this lab is how to use Exception Handling in Python programs. The main focus is how to handle exceptions raised in a program.

An exception **is** an error that happens during execution **of** a program. When that

error occurs, Python generate an exception that can be handled, which avoids yourprogram to crash.

Exceptions are convenient **in** many ways **for** handling errors **and** special conditions **in** a program. When you think that you have a code which can produce an error **then**,you can **use** exception handling.

Exercise:

Q.1

It is possible to catch multiple (different) exceptions that may be raised in a *Try* block using multiple (or a series of) *except* blocks. For example we can write two *Except* blocks; one for catching an *IndexError* and the second is for catching ArthmaticError(by taking two lists consisting of equal no of items ,and perform division with each pair of list elements). Remember that the *IndexError* is raised when an element of an array whose index is out of the range of the array is accessed. An out of range index can be either less than zero or greater than or equal to the size of the array. The code below demonstrates the use of multiple *Except* blocks

Q.2.

Design a python program to demonstrate EOFError by using Try-Except Block.

Q.3

Design a python program to demonstrate IndentationError by using Try-Except Block.

Q.4

Design a python program to demonstrate IOError by using Try-Except Block.