**MODULE – 5 ASSIGNMENT**

**File Handling & Exception Handling**

1. Write the code in python to open a file named “try.txt” (create a sample file)
2. What is the purpose of ‘r’ as a prefix in the given statement?

f = open(r, “d:\color\flower.txt”)

Answer: **The r means reading file**

**Opens a file for reading, error if the file does not exist**

1. Write a note on the following
2. Purpose of Exception Handling:

**Answer: When an error occurs, or exception as we call it, Python will normally stop and generate an error message. These exceptions can be handled using the try statement**

1. Try block

**Answer: The try block lets you test a block of code for errors**

**try:  
  print(df)  
except:  
  print("An exception occurred")**

1. Except block

**Answer: The except block handle the error**

1. Else block

Answer: **The else block execute code when there is no error**

**try:**

**print("Hello")**

**except:**

**print("Something went wrong")**

**else:**

**print("Nothing went wrong")**

1. Finally block

Answer: **The finally block lets you execute code, regardless of the result of the try- and except blocks**

**try:**

**print(x)**

**except:**

**print("Something went wrong")**

**finally:**

**print("The 'try except' is finished")**

1. Bulit-in exceptions

Answer:

**Even if any statement or expression is syntactically correct, it may produce an error when executed. Exceptions are errors that occur during execution. In Python, all the exception classes are derived from the Base Exception class.**

**All other exceptions are derived from the Base Exception. User-defined classes cannot be directly derived from this class; instead, we must use the Exception class to derive user-defined classes. The Exception class is also derived from the Base Exception class.**

**In order to get the list of all the built-in exceptions in Python we can use the following code:**

**print(dir(locals()['\_\_builtins\_\_']))**

1. Write any 2 Custom exceptions

Answer: Python has numerous built-in exceptions that force your program to output an error when something in the program goes wrong.

However, sometimes you may need to create your own custom exceptions that serve your purpose.

In Python, users can define custom exceptions by creating a new class. This exception class has to be derived, either directly or indirectly, from the built-in Exception class. Most of the built-in exceptions are also derived from this class.