**TASK FIVE**

**FILE HANDLING AND EXCEPTION HANDLING**

**1.** Write a program in Python to allow the error of syntax to be handled using exception handling. **HINT:** Use SyntaxError

def n():

    try:

        eval('a=====b')

    except SyntaxError:

        print("There is syntax error")

n()

**2.** Write a program in Python to allow the user to open a file by using the argv module. If the entered name is incorrect throw an exception and ask them to enter the name again. Make sure to use read only mode.

import sys

try:

    with open(sys.argv[1], 'r') as my\_file:

        print(my\_file.read())

except FileNotFoundError:

    print("File Not found. Please enter the correct file again.")

**3.** Write a program to handle an error if the user entered a number more than four digits it should return “The length is too short/long !!! Please provide only four digits”

try:

    user\_input = input("Enter the four digits number:")

    assert len(user\_input) == 4

except AssertionError:

    print("The length is too short/long!!! Please provide only four digits")

OUTPUT:

Enter the four digits number:2342

PS D:\Python\Task 5> python Task5\_Q3.py

Enter the four digits number:321

The length is too short/long!!! Please provide only four digits

**4.** Create a login page backend to ask users to enter the username and password. Make sure to ask for a Re-Type Password and if the password is incorrect give chance to enter it again but it should not be more than 3 times.

user\_name = input("Enter the username:")

password = input("Enter the password :")

n = 1

while n <= 4:

    try:

        if n == 4:

            raise Exception

        n = n + 1

        retype\_password = input("Re-Type password:")

        if password == retype\_password:

            break

    except Exception:

        print("You have exhausted all your tries")

        break

OUTPUT:

Enter the username:ronak

Enter the password :pwdpwd

Re-Type password:pwdpdw

Re-Type password:pdwprd

Re-Type password:pdwpds

You have exhausted all your tries

**5.** Go through the link provided below to understand finally and raise concept: https://www.programiz.com/python-programming/exception-handling

**6.** Read doc.txt file using Python File handling concept and return only the even length string from the file. Consider the content of doc.txt as given below:

Hello I am a file

Where you need to return the data string

Which is of even length

Make sure you return the content in The same link as it is present.

file1 = open ("doc.txt", "w")

L = ["Hello I am a file \n","Where you need to return the data string \n","Which is of even length \n"]

file1.writelines(L)

file1.close()

file2 = open("doc.txt", "r+")

text = file2.readlines()

words = []

for line in text:

    words += line.split(" ")

    words.remove("\n")

print(words)

even\_len\_string = []

for i in words: # checking even string

    if len(i) % 2 == 0:

        even\_len\_string.append(i)

print(even\_len\_string)

listToStr = ' '.join([str(elem) for elem in even\_len\_string])

print(listToStr)

file2.close()

with open("doc.txt", "a") as document1:

    f = ["even length string is : \n",listToStr]

    document1.writelines(f)

OUTPUT:

'Hello', 'I', 'am', 'a', 'file', 'Where', 'you', 'need', 'to', 'return', 'the', 'data', 'string', 'Which', 'is', 'of', 'even', 'length']

['am', 'file', 'need', 'to', 'return', 'data', 'string', 'is', 'of', 'even', 'length']

am file need to return data string is of even length

**END OF TASK FIVE**