**Task Five**

**File Handling & Exception Handling**

1) Write a program in Python to allow the error of syntax to be handled using exception handling.

try:

    eval('x=x')

except:

    print("Syntax error!")

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

with open(sys.argv[1]) as f:

    print(f.read())

try:

    x=input("Enter your guess of file name:")

    if (x!="file1"):

        raise Exception

except Exception:

    print("Wrong guess!")

else:

    print("Correct answer!")

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:

    x=int(input("Enter a number:"))

    if len(x)!=4 :

        raise Exception

except Exception:

    print("Length too short/long")

else:

    print("All good!")

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.

count=0

while count < 3:

    username = input('Enter username: ')

    password = input('Enter password: ')

    if password=='TestPwd' and username=='admin\_only':

        print('Access granted')

        break

    else:

        print('Access denied. Try again.')

        count += 1

5) Go through the link provided below to understand finally and raise concept:

Finally: This clause is executed no matter what, can be used to ensure files opened be closed after operations are run on them.

Raise: Raise is used to manually raise exceptions caught at runtime

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.

with open("doc.txt","w") as f:

    f.write("\nHello I am a file")

    f.write("\nWhere you need to return the data string")

    f.write("\nWhich is of even length")

    f.write("\nMake sure you return the content in The same link as it is present.")

filepath = 'doc.txt'

with open(filepath) as fp:

    line = fp.readline()

    cnt = 1

    while line:

       if(len(line.strip)%2==0):

           print("Line {}: {}".format(cnt, line.strip()))

           line = fp.readline()

           cnt += 1