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

try:

    eval(x=x)

except:

    print("Syntax error!")

1. 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 x:

    print(x.read(1))

try:

    x=input("Enter file name:")

    if (x!="file1"):

        raise Exception

except Exception:

    print("Incorrect")

else:

    print("Correct")

1. 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)!=1234 :

        raise Exception

except Exception:

    print("The length is too short/long!!!")

else:

    print("Okay, good!")

1. 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.

print("Enter username and password")

count=0

while count <3:

    username=input("enter username:")

    password=input("Enter password:")

    if username=="Catenation" and password=="Catenation123":

        print("Signed In")

        break

        print("Try Again")

1. Go through the link provided below to understand finally and raise concept: <https://www.programiz.com/python-programming/exception-handling>
2. 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") as f:

    f.write("Hello I am a file")

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

    f.write("Which is of even length")

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

filepath = 'doc.txt'

with open(filepath):

    line = filepath.readline()

    cnt = 1

    while line:

       if(len(line.strip)%2==0):

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

           line = filepath.readline()

           cnt += 1