**INTERNSHIP ASSIGNMENTS**

1.CHECK FOLDER EXIST OR NOT AND LIST OUT SUB FOLDER AND PRINT CREATE AND MODIFICATION TIME .

import sys  
import os,time  
import pathlib  
def folder(arg): # arg --> system localpath eg:"d:\lokesh"  
 folder = pathlib.Path(arg)  
 if folder.exists (): # it check folder exist or not  
 print ("Folder exist")  
 else:  
 raise Exception("Folder not exist")  
  
 file=os.listdir(folder)  
 print(file)  
  
 ctime = time.ctime(os.path.getctime(folder)) # getting created time  
  
 mtime = time.ctime(os.path.getmtime(folder)) # getting modified time  
  
 for x in file:  
 print(x, "created time --->" +ctime ) # printing sub folder and created time  
  
 print(x, "modified time --->" +mtime ) # printing sub folder and modified time  
  
if \_\_name\_\_=="\_\_main\_\_":  
 folder(sys.argv[1])

**OUTPUT:**

C:\Users\PraveenLoke\PycharmProjects\folder\venv\Scripts\python.exe C:/Users/PraveenLoke/PycharmProjects/folder/data.py d:\lokesh

Folder exist

['filename.txt', 'filename1.txt', 'FolderData']

filename.txt created time --->Sun Nov 3 18:08:17 2019

filename.txt modified time --->Thu Jan 2 16:06:47 2020

filename1.txt created time --->Sun Nov 3 18:08:17 2019

filename1.txt modified time --->Thu Jan 2 16:06:47 2020

FolderData created time --->Sun Nov 3 18:08:17 2019

FolderData modified time --->Thu Jan 2 16:06:47 2020

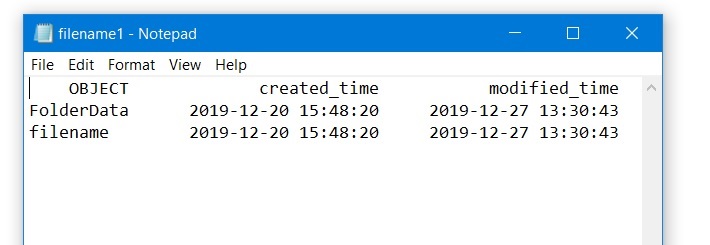
2. TO OPEN THE FILE AND WRITE THE FILE

import os  
import pathlib  
import time  
  
def folderpath(arg):  
 folder = pathlib.Path(arg)  
 if folder.exists (): # it check folder exist or not  
 print("Folder exist")  
 else:  
 raise Exception("Folder not exist")  
  
def filepath(arg): #function to open file from "d:\lokesh\filename.txt"  
 print("Writing the file")  
 filename = pathlib.Path(arg)  
 myfile1 = open(filename, 'w')  
  
  
 createtime = os.path.getctime(filename) # getting created time  
  
 ctime = time.strftime('%Y-%m-%d %H:%M:%S', time.localtime(createtime))  
  
 modfytime = os.path.getmtime(filename) #getting modified time  
  
 mtime = time.strftime('%Y-%m-%d %H:%M:%S', time.localtime(modfytime))  
  
 listfile={"FolderData","filename"}  
  
 myfile1.write("OBJECT\tcreated\_time\tmodified\_time \n")  
 for x in listfile:  
  
 myfile1.write(x+"\t"+ctime+"\t"+mtime+"\n" ) # printing sub folder and created time  
  
if \_\_name\_\_ == "\_\_main\_\_":  
 import sys  
 folderpath(sys.argv[1])  
 filepath(sys.argv[2])

OUTPUT:

C:\Users\PraveenLoke\PycharmProjects\folder\venv\Scripts\python.exe C:/Users/PraveenLoke/PycharmProjects/folder/openfile.py d:\lokesh d:\lokesh\filename.txt

Folder exist



3. READ THE FILE

import pathlib  
def fn(arg):  
  
 folder = pathlib.Path(arg)  
 if folder.exists (): # it check folder exist or not  
 #raise Exception("Folder exist")  
 print("Folder exist")  
 else:  
 #raise Exception("Folder not exist")  
 print("not exist")  
def fn1(arg): #function to open file from "d:\lokesh\filename.txt"

print("Reading file")  
 f = open(arg)  
 for file in f:  
 content= f.read()  
 print(content)  
if \_\_name\_\_ == "\_\_main\_\_":  
 import sys  
 fn(sys.argv[1])  
 fn1(sys.argv[2])

OUTPUT:

Folder exist

Reading file

OBJECT created\_time modified\_time

FolderData 2019-12-20 15:48:20 2019-12-27 13:30:43

filename 2019-12-20 15:48:20 2019-12-27 13:30:43

4. LISTING FOLDER AND FILE COUNTS

import os  
import sys  
  
def Count\_files\_in\_subd(args):  
  
 filepath = args  
 print("listing folder and files count ")  
 print(sys.argv[2])  
 for root, dirs, files in os.walk(filepath):  
  
 print("{}\t , {}\t ,{} ".format(len(dirs),len(files),root))  
  
Count\_files\_in\_subd(sys.argv[1])

OUTPUT:

C:\Users\PraveenLoke\PycharmProjects\folder\venv\Scripts\python.exe C:/Users/PraveenLoke/PycharmProjects/folder/ListFolder.py d:\python "folder,files ,path"

listing folder and files count

folder ,files ,path

3 , 8 ,d:\python

1 , 0 ,d:\python\f1

0 , 1 ,d:\python\f1\if1

1 , 0 ,d:\python\f2

1 , 0 ,d:\python\f2\if2

1 , 0 ,d:\python\f2\if2\iif2

0 , 4 ,d:\python\f2\if2\iif2\iif3

1 , 0 ,d:\python\f3

0 , 0 ,d:\python\f3\f4

5. READING FILE THROUGH PANDAS LIB

import sys  
import pandas as pd  
def pandafile(arg):  
  
 file = open(arg) # arg represents the file location ex: "d:\lokesh/filename.txt  
 df= pd.read\_table(file) # panda read text file  
 print(df)  
pandafile(sys.argv[1])

OUTPUT:

C:\Users\PraveenLoke\PycharmProjects\folder\venv\Scripts\python.exe C:/Users/PraveenLoke/PycharmProjects/folder/pandafile.py d:\lokesh\filename.txt

OBJECT created\_time modified\_time

0 filename 2019-12-20 15:48:20 2020-01-05 19:19:08

1 FolderData 2019-12-20 15:48:20 2020-01-05 19:19:08

6.FINDING THE KEYWORD’S COUNT IN THE SAMPLE FILE

import sys  
def logfile(args):  
 filepath= open(args)  
 contents = filepath.read()  
 keyword=sys.argv[2]  
 count = contents.count(keyword)  
 word = count  
 print(keyword,word)  
  
logfile(sys.argv[1])

OUTPUT:

C:\Users\PraveenLoke\PycharmProjects\folder\venv\Scripts\python.exe C:/Users/PraveenLoke/PycharmProjects/folder/KeywordCount.py  **d:\python\log.txt rows**

rows 92

Process finished with exit code 0

7. FINDING THE KEYWORD COUNT AND IF GREATER THAN ZERO AND IT THE TEST MAIL WITH KEYWORD COUNT

import smtplib  
import sys  
def logfile(args):  
 filepath= open(args)  
 contents = filepath.read()  
 keyword=sys.argv[2]  
 count = contents.count(keyword)  
  
 #Mail\_Subject  
  
 TO = 'official.gna.lokesh@gmail.com'  
 SUBJECT = 'TEST MAIL'  
 TEXT = 'Hi message from smtp '  
  
 word=count  
  
 if word > 0 :  
  
 # Gmail Sign In  
 gmail\_sender = 'official.gna.lokesh@gmail.com'  
 gmail\_passwd = 'gnalokesh'  
 # server setup  
 server = smtplib.SMTP('smtp.gmail.com', 587)  
 server.ehlo()  
 server.starttls()  
 server.login(gmail\_sender, gmail\_passwd)  
  
 BODY = '\r\n'.join(['To: %s' % TO, 'From: %s' % gmail\_sender, 'Subject: %s' % SUBJECT, '', TEXT,'',keyword,'count %d'% count ])  
  
 try:  
 server.sendmail(gmail\_sender, [TO], BODY)  
 except:  
 raise Exception('error sending mail')  
  
 server.quit()  
 print(" Details are sent to mail ")  
 else:  
 raise Exception("check program")  
logfile(sys.argv[1])

OUTPUT:C:/Users/PraveenLoke/PycharmProjects/folder/smtpmail.py d:\python\log.txt rows

Details are sent to mail

