# Day 12 – File Operations

* **Read Only (‘r’) :**Open text file for reading.
* **Read and Write (‘r+’) :** Open the file for reading and writing.
* **Write Only (‘w’) :** Open the file for writing. For existing file, the data is truncated and over-written.
* **Write and Read (‘w+’)**: Open the file for reading and writing. For existing file, data is truncated and over-written.
* **Append Only (‘a’)** : Open the file for writing.
* **Append and Read (‘a+’) :**Open the file for reading and writing.

# ****Opening a File****

# Open function to open the file "MyFile1.txt"

# (same directory) in append mode and

file1 = open("MyFile.txt","a")

# store its reference in the variable file1

# and "MyFile2.txt" in D:\Text in file2

file2 = open(r"D:\Text\MyFile2.txt","w+")

# ****Closing a file****

# Opening and Closing a file "MyFile.txt"

# for object name file1.

file1 = open("MyFile.txt","a")

file1.close()

**Writing to a file**

**write() :** Inserts the string str1 in a single line in the text file

**writelines() :** For a list of string elements, each string is inserted in the text file.Used to insert multiple strings at a single time.

# Program to show various ways to read and

# write data in a file.

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

L = ["This is Delhi \n","This is Paris \n","This is London \n"]

# \n is placed to indicate EOL (End of Line)

file1.write("Hello \n")

file1.writelines(L)

file1.close() #to change file access modes

file1 = open("myfile.txt","r+")

print "Output of Read function is "

print file1.read()

print

# seek(n) takes the file handle to the nth

# bite from the beginning.

file1.seek(0)

print "Output of Readline function is "

print file1.readline()

print

file1.seek(0)

# To show difference between read and readline

print "Output of Read(9) function is "

print file1.read(9)

print

file1.seek(0)

print "Output of Readline(9) function is "

print file1.readline(9)

file1.seek(0)

# readlines function

print "Output of Readlines function is "

print file1.readlines()

print

file1.close()

# ****Appending to a file****

# # Python program to illustrate

# # Append vs write mode

# file1 = open("myfile.txt","w")

# L = ["This is Delhi \n","This is Paris \n","This is London \n"]

# file1.close()

# # Append-adds at last

# file1 = open("myfile.txt","a")#append mode

# file1.write("Today \n")

# file1.close()

# file1 = open("myfile.txt","r")

# print "Output of Readlines after appending"

# print file1.readlines()

# print

# file1.close()

# # Write-Overwrites

# file1 = open("myfile.txt","w")#write mode

# file1.write("Tomorrow \n")

# file1.close()

# file1 = open("myfile.txt","r")

# print "Output of Readlines after writing"

# print file1.readlines()

# print

# file1.close()

# Task:

# Create a file 30 days 30 hour operations

# Write data in it I have completed 10 days successfully.

# Append the data your name in to it.

# Close the file.