**Files**

1.Write a program to read text file

# opening a file in 'r'

file = open('sample.txt', 'r')

# read() - it used to all content from a file

# readline() - it used to read number of lines we want, it takes one argument which

is number of lines

# readlines() - it used to read all the lines from a file, it returns a list

# reading data from the file using read() method

data = file.read()

# printing the data

print(data)

# closing the file

file.close()

2. Write a program to read a file stream

f=open('python.txt','r')

4. Write a program to read a file stream supports random access

5. Write a program to read a file a just to a particular index using seek()

f = open("data.txt", "rb")

# sets Reference point to tenth

# position to the left from end

f.seek(-10, 2)

# prints current position

print(f.tell())

# Converting binary to string and

# printing

print(f.readline().decode('utf-8'))

f.close()

6. Write a program to check whether a file is having read access and write access permissions

>>> import os

>>> os.access('my\_file', os.R\_OK) # Check for read access

True

>>> os.access('my\_file', os.W\_OK) # Check for write access

True

>>> os.access('my\_file', os.X\_OK) # Check for execution access

False

>>> os.access('my\_file', os.F\_OK) # Check for existance of file

True