**ASSIGNMENT – 06**

**Q . Write a Python program to read a file line by line and store it into a list.**

By using readline(). readline() function reads a line of the file and return it in the form of the string. It takes a parameter n, which specifies the maximum number of bytes that will be read. However, does not reads more than one line, even if n exceeds the length of the line. It will be efficient when reading a large file because instead of fetching all the data in one go, it fetches line by line. readline() returns the next line of the file which contains a newline character in the end. Also, if end of the file is reached, it will return an empty string.

**Eg** of program which is read line by line and is stored into the list.

def file\_read(fname):

with open(fname) as f:

content\_list = f.readlines()

print(content\_list)

file\_read('test.txt')

**OUTPUT:**

['Welcome to w3resource.com.\n', 'Append this text.Append this text.Append this text.\n', 'Append this text.\n

', 'Append this text.\n', 'Append this text.\n', 'Append this text.\n']

**Q. Write a Python program to read a file line by line store it into an array.**

def file\_read(fname):

content\_array = []

with open(fname) as f:

for line in f:

content\_array.append(line)

print(content\_array)

file\_read('test.txt')

**OUTPUT:**

['Welcome to w3resource.com.\n', 'Append this text.Append this text.Append this text.\n', 'Append this text.\n

', 'Append this text.\n', 'Append this text.\n', 'Append this text.\n']

**Q. Write a Python program to read a random line from a file.**

import random

def random\_line(fname):

lines = open(fname).read().splitlines()

return random.choice(lines)

print(random\_line('test.txt'))

**OUTPUT:**

Append this text.

**Q. Write a Python program to combine each line from first file with the corresponding line in second file.**

with open('abc.txt') as fh1, open('test.txt') as fh2:

for line1, line2 in zip(fh1, fh2):

# line1 from abc.txt, line2 from test.txtg

print(line1+line2)

**OUTPUT:**

Red

Welcome to w3resource.com.

Green

Append this text.Append this text.Append this text.

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Yellow

Append this text.

**Q. Write a Python program to generate 26 text files named A.txt, B.txt, and so on up to Z.txt.**

import string, os

if not os.path.exists("letters"):

os.makedirs("letters")

for letter in string.ascii\_uppercase:

with open(letter + ".txt", "w") as f:

f.writelines(letter)

**Q. Write a Python program to create a file where all letters of English alphabet are listed by specified number of letters on each line.**

import string

def letters\_file\_line(n):

with open("words1.txt", "w") as f:

alphabet = string.ascii\_uppercase

letters = [alphabet[i:i + n] + "\n" for i in range(0, len(alphabet), n)]

f.writelines(letters)

letters\_file\_line(3)

**OUTPUT:**  
words1.txt

ABC

DEF

GHI

JKL

MNO

PQR

STU

VWX

YZ