Python Mod 4 assignment1

1:Write a Python program to read an entire text file.

my\_file=open("vinay.txt","r")

for line in my\_file:

print(line)

my\_file.close()

Output:-

hi

i'm

vinay

cse-B

gitam

banglore

**2.** Write a Python program to read first n lines of a file

my\_file=open("vinay1.txt","t")

n=int(input("enter no.of lines to read:")

i=0

for line in my\_file:

if i<n:

print(line)

i+=1

else:

break

my\_file.close()

Output:-

enter no.of lines to read: 5

hi

i'm

vinay

cse-B

gitam

3) **.** Write a Python program to append text to a file and display the text

def file\_read(fname):

from itertools import islice

with open(fname, "w") as myfile:

myfile.write("python excercises\n

myfile.write("java excercises\n")

txt = open(fname)

print(txt.read())

file\_read('abc.txt')

Output:-

python excercises

java excercises

**4.** Write a Python program to read last n lines of a file.

my\_file=open("vinay2.txt","r")

n=int (input ("enter no.of lines to read:"))

for line in (my\_file.readlines() [-n:]):

print(line)

my\_file.close()

Output:-

enter no.of lines to read: 3

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**5.** Write a Python program to read a file line by line store it into a variable

my\_file=open("vinay2.txt","r")

a=""

for line in my\_file:

a=a+line

print(a)

my\_file.close()

Output:-

hi

i'm

vinay

cse-B

gitam

banglore

6)Write a Python program to read a file line by line and store it into a list

my\_file=open("vinay2.txt","r")

l=[]

for line in my\_file:

l.append(line)

print(l)

my\_file.close()

['hi\n', "i'm\n", 'vinay\n', 'cse-B\n', 'gitam\n', 'banglore\n']

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

my\_file=open("vinay2.txt","r")

l=[]

for line in my\_file:

l.append(line)

print(l)

my\_file.close()

Output:-

['hi\n', "i'm\n", 'vinay\n', 'cse-B\n', 'gitam\n', 'banglore\n']

8. Write a Python program to count the number of lines in a text file.

my\_file=open("vinay2.txt","r")

count=0

for line in my\_file:

count+=1

print("no.of lines in vinay2.txt:",count)

Output:-

no.of lines in vinay2.txt: 6

9. Write a Python program to get the file size of a plain file.

import os

size=os.path.getsize("vinay2.txt")

print("size of vinay2.txt:",size,"bytes")

Output:-

size of vinay 2.txt: 55 bytes

10) Write a Python program to copy the contents of a file to another file

my\_file1=open("vinay2.txt","r")

my\_file2=open("vinay3.txt","w")

for line in my\_file1:

my\_file2.write(line)

my\_file3=open("vinay3.txt","r")

for line in my\_file3:

print(line)

my\_file1.close()

my\_file2.close()

my\_file3.close()

Output:-

hi

i'm

vinay

cse-B

gitam

banglore

11) Write a Python program to sum all the items in a list.

def sum\_list(items):

sum\_numbers = 0

for x in items:

sum\_numbers += x

return sum\_numbers

print(sum\_list([1,2,3]))

Output:- 6

12) Write a Python program to multiplies all the items in a list

def multiply\_list(items):

tot = 1

for x in items:

tot \*= x

return tot

print(multiply\_list([1,2,4]))

Output:- 8

13) Write a Python program to get the largest & smallest number from a list.

def max\_num\_in\_list(list):

max = list[0]

for a in list:

if a > max:

max = a

return max

print(max\_num\_in\_list([1, 2, 3]))

Output:- 3

14) Write a Python program to remove duplicates from a list

11= [10,20,30,40,10,20,30,40]

12 =[]

for i in 11:

if i not in 12:

12.append(i)

else:

continue

print("after removing duplicates:")

print("list:",12)

Output:-

after removing duplicates:

list: [10, 20, 30, 40]

15) Write a Python program to check a list is empty or not.

l = []

if not l:

print("list is empty")

Output:- list is empty

16) Write a Python program to clone or copy a list.

11=[10,20,30,40]

12=[]

for i in 11:

12.append(i)

print(12)

17) Write a Python program to print a specified list after removing the 0th, 4th and 5th elements

11=['red','green','white','black','pink','yellow']

12=[]

i=0

while i<=len(11):

if i==0 or i==4 or i==5:

i+=1

continue

else:

12.append(11[i])

i+=1

print("after removing 0th,4th and 5th positions:")

print("list:",12)

Output:-

after removing 0th, 4th and 5th positions:

list: ['green', 'white', 'black']

18) Write a Python program to print the numbers of a specified list after removing even numbers from it.

11=[1,2,3,4,5,6,7,8,9,10]

12=[]

for i in 11:

if i%2==0:

continue

else:

12.append(i)

print("after removing even numbers from list:")

print("list:",12)

Output:-

after removing even numbers from list:

list: [1, 3, 5, 7, 9]

19) Write a Python program to shuffle and print a specified list

from random import shuffle

l=[1,2,3,4,5,6,7,8,9,10]

shuffle(l)

print(l)

Output:- [ 9, 7, 10, 8, 1, 6, 4, 3, 2, 5]

20) Write a Python program to get the difference between the two lists.

11=[10,20,30,40,50,60,70,80,90,100]

12=[1,2,3,4,5,6,7,8,9,10]

13=[]

if len(11)==len(12)

i,j=0,0

while i<len(11) and j<len(12):

13.append(11[i]-12[j])

i+=1

j+=1

print("differences between two lists:",13)

else:

print("no.of elements are different .not able to do difference")

Output:-

difference between two lists: [9, 18, 27, 36, 45, 54, 63, 72, 81, 90]