**ASSIGNMENT 3**

1. Python Program to Read the Contents of a File

a=str(input("Enter the name of the file with .txt extension:"))

file2=open(a,'r')

line=file2.readline()

while(line!=""):

print(line)

line=file2.readline()

file2.close()

*output:*

Contents of file:

Hello world

Output:

Enter the name of the file with .txt extension: data1.txt

Contents of file:

This programming language is

Python.

Output:

Enter the name of the file with .txt extension: data2.txt

This programming language is

Python.

2. Python Program to Count the Number of Words in a Text File

fname = input("Enter file name: ")

num\_words = 0

with open(fname, 'r') as f:

for line in f:

words = line.split()

num\_words += len(words)

print("Number of words:")

print(num\_words)

*output:*

Contents of file:

Hello world

Output:

Enter file name: data1.txt

Number of words:

5

3. Python Program to Count the Number of Lines in a Text File

fname = input("Enter file name: ")

num\_lines = 0

with open(fname, 'r') as f:

for line in f:

num\_lines += 1

print("Number of lines:")

print(num\_lines)

*output:*

Contents of file:

Hello world

Output:

Enter file name: data1.txt

Number of lines:

2

4. Python Program to Read a String from the User and Append it into a File

fname = input("Enter file name: ")

file3=open(fname,"a")

c=input("Enter string to append: \n");

file3.write("\n")

file3.write(c)

file3.close()

print("Contents of appended file:");

file4=open(fname,'r')

line1=file4.readline()

while(line1!=""):

print(line1)

line1=file4.readline()

file4.close()

*output:*

Contents of file:

Hello world

Output:

Enter file name: test.txt

Enter string to append:

test

Contents of appended file:

Hello world

5. Python Program to Count the Occurrences of a Word in a Text File

fname = input("Enter file name: ")

word=input("Enter word to be searched:")

k = 0

with open(fname, 'r') as f:

for line in f:

words = line.split()

for i in words:

if(i==word):

k=k+1

print("Occurrences of the word:")

print(k)

*output:*

Contents of file:

hello world hello

Output:

Enter file name: test.txt

Enter word to be searched:hello

Occurrences of the word:

2

6. Python Program to Copy the Contents of One File into Another

with open("test.txt") as f:

with open("out.txt", "w") as f1:

for line in f:

f1.write(line)

*output:*

Contents of file(test.txt):

Hello world

Output(out.text):

Hello world

7. Python Program that Reads a Text File and Counts the Number of Times a Certain Letter Appears in the Text File

fname = input("Enter file name: ")

l=input("Enter letter to be searched:")

k = 0

with open(fname, 'r') as f:

for line in f:

words = line.split()

for i in words:

for letter in i:

if(letter==l):

k=k+1

print("Occurrences of the letter:")

print(k)

*output:*

Contents of file:

hello world hello

Output:

Enter file name: out.txt

Enter letter to be searched:o

Occurrences of the letter:

3

8. Python Program to Read a Text File and Print all the Numbers Present in the Text File

fname = input("Enter file name: ")

with open(fname, 'r') as f:

for line in f:

words = line.split()

for i in words:

for letter in i:

if(letter.isdigit()):

print(letter)

*output:*

Contents of file:

hello world hello5

hello6

Output:

Enter file name: out.txt

5

6

9. Python Program to Append the Contents of One File to Another File

name1 = input("Enter file to be read from: ")

name2 = input("Enter file to be appended to: ")

fin = open(name1, "r")

data2 = fin.read()

fin.close()

fout = open(name2, "a")

fout.write(data2)

fout.close()

*output:*

Output:

Enter file to be read from: test.txt

Enter file to be appended to: test1.txt

Contents of file test.txt:

Appending!!

Contents of file test1.txt (before appending):

Original

Contents of file test1.txt (after appending):

Original Appending!!

10. Python Program to Count the Number of Blank Spaces in a Text File

fname = input("Enter file name: ")

k = 0

with open(fname, 'r') as f:

for line in f:

words = line.split()

for i in words:

for letter in i:

if(letter.isspace):

k=k+1

print("Occurrences of blank spaces:")

print(k)

*output:*

Contents of file:

Hello world hello

Output:

Enter file name: read.txt

Occurrences of blank spaces:

2

s

11. Python Program to Read a File and Capitalize the First Letter of Every Word in the File

fname = input("Enter file name: ")

with open(fname, 'r') as f:

for line in f:

l=line.title()

print(l)

*output:*

Contents of file:

hello world

hello

Output:

Enter file name: read.txt

Hello World

Hello

12.Python Program to Read the Contents of a File in Reverse Order

filename=input("Enter file name: ")

for line in reversed(list(open(filename))):

print(line.rstrip())

*output:*

Contents of file:

hello world

hhell

Output:

Enter file name: read.txt

hello

hello word