(https://www.darshan.ac.in/)

Python Programming - 2101CS405

Lab - 8

File handling

A

01) WAP to read entire file named abc.txt

In [5]:
```
f = open('abc.txt','r')
print(f.read())
f.close()
```

```
Hello from abc
```

02) WAP to print program it self on console.

In [7]:
```
f = open('Python Programming - Lab - 8.ipynb','r')
print(f.read())
f.close()
```

```
{
 "cells": [
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
    "<a href='https://www.darshan.ac.in/'> <img src='https://www.darsha
n.ac.in/Content/media/DU_Logo.svg' width=\"250\" height=\"300\"/></a>
\n",
    "<pre>\n",
    "<center><b><h1>Python Programming - 2101CS405</b></center>\n",
    "<center><b><h1>Lab - 8</b></center>    \n",
    "<pre>"
   ]
  },
  {
   "cell_type": "markdown",
   "metadata": {},
   "source": [
```

03) WAP to read first 5 lines from the file named abc.txt

In [8]:
```
f = open('abc.txt','r')
for i in range(0,5):
    print(f.readline())
f.close()
```

```
Hello from abc-1

Hello from abc-2

Hello from abc-3

Hello from abc-4

Hello from abc-5
```

04) WAP to find the longest word in a file named abc.txt

In [14]:
```
f = open('abc.txt','r')
l1 = f.read().split(" ");
longestWord = '';
length = len(l1[0]);
for word in l1:
    if len(word)>length:
        longestWord = word;
        length = len(word);
print("Longest word ",longestWord)
print("Length",length);
```

```
Longest word  abc-8
Darshan
Length 13
```

05) WAP to find the size of the file named abc.txt

In [25]:
```
import os;
size = os.stat('abc.txt').st_size;
print(size);
```

```
154
```

06) WAP to implement search function to search specific occurance of word in a given text file.

In [15]:
```
f = open("abc.txt", "r")
count = 0
word = input("Enter Word For Search : ")
for line in f.readlines():
    for words in line.split(" "):
        if words == word or word+"\n" == words:
            count += 1
if count == 0:
    print("word not found")
else:
    print(count, "occurence")
f.close()
```

```
Enter Word For Search : Darshan
1 occurence
```

B

01) WAP to write first 100 prime numbers to a file named primenumbers.txt

(Note: each number should be in new line)

In [18]:

```
f=open('primenumbers.txt','w')
l1=[];
for n in range(1,101):
    if n > 1:
        for i in range(2,n):
            if n%i==0:
                break;
            else:
                if n in l1:
                    break;
                else:
                    l1.append(n);
for j in l1:
    f.writelines(str(j)+'\n')

f = open('primenumbers.txt','r');
print(f.read())
f.close()
```

```
Hello from abc-1
Hello from abc-2
Hello from abc-3
Hello from abc-4
Hello from abc-5
Hello from abc-6
Hello from abc-7
Hello from abc-8
Darshan University
```

In [19]:

```
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
51
53
55
57
59
61
63
65
67
69
71
73
75
77
79
81
83
85
87
89
91
93
95
97
99
```

02) WAP to merge two files and write it in a new file.

In [20]:
```
f1 = open('abc.txt','r')
data1 = f1.read();
f2 = open('second.txt','r');
data2 = f2.read()

data1 += '\n'
data1 += data2

f3 = open('third.txt','w')
f3.write(data1);
f1.close();
f2.close();
f3.close();
```

03) WAP to encrypt a text file.

In [42]:
```
key=int(input("Enter key => "))
f = open('demo.txt','r');
a=f.readlines();
f2 = open('demo2.txt','w');
for line in a:
    print(line);
    words = line.split(" ");
    for word in words:
        l1 = list(word);
        for char in l1:
            if char != ' ':
                newChar = ord(char) + key;
                f2.write(chr(newChar));
            else:
                print(' ');
f.close();
f2.close();
```

```
Enter key => 23
ABCD ABCD

EFGH

HIJK

LMNO
```

In [43]:
```
f3 = open('demo2.txt','r');
print(f3.read())
```

```
XYZ[XYZ[!\]^_!_`ab!cdef
```

04) WAP to decrypt a previously encrypted file.

In [48]:
```
key=int(input("Enter key "))
f = open('demo2.txt','r');
a = f.readlines();
f2 = open('demo3.txt','w');
for line in a:
    print(line);
    words = line.split(" ");
    print(words);
    for word in words:
        l1 = list(word);
        print(l1);
        for char in l1:
            if char != ' ':
                newChar = ord(char) - key;
                f2.write(chr(newChar));
            else:
                print(' ');

f.close();
f2.close();
```

```
Enter key 23
XYZ[XYZ[!\]^_!_`ab!cdef
['XYZ[XYZ[!\\]^_!_`ab!cdef']
['X', 'Y', 'Z', '[', 'X', 'Y', 'Z', '[', '!', '\\', ']', '^', '_', '!',
'_', '`', 'a', 'b', '!', 'c', 'd', 'e', 'f']
```

In [49]:
```
f3 = open('demo3.txt','r');
print(f3.read())
```

```
ABCDABCD
EFGH
HIJK
LMNO
```

05) WAP to remove a word from text file.

In [96]:
```
f = open('abc.txt','r')
l1 = f.readlines();
word1 = input("Enter word")
word2 = []
print(l1);
l2=[]
for line in l1:
    word = line.split(' ');
    print(word)
    for i in range(len(word)):
        if word[i] == word1:
            word.remove()

f1 = open('abc.txt','w');
for i in l1:
    f1.write(str(i));
f1.close();
```

```
Enter wordabc-1
['Hello from abc-1\n', 'Hello from abc-2\n', 'Hello from abc-3\n', 'Hell
o from abc-4\n', 'Hello from abc-5\n', 'Hello from abc-6\n', 'Hello from
abc-7\n', 'Hello from abc-8\n', 'Darshan University']
['Hello', 'from', 'abc-1\n']
Hello
from
abc-1

new Hello from
['Hello', 'from', 'abc-2\n']
Hello
from
abc-2

new Hello from abc-2

['Hello', 'from', 'abc-3\n']
Hello
```

In [93]:
```
f2 = open('abc.txt','r')
print(f2.read());
f2.close()
```

```
Hello from abc-1
Hello from abc-2
Hello from abc-3
Hello from abc-4
Hello from abc-5
Hello from abc-6
Hello from abc-7
Hello from abc-8
Darshan University
```

In [ ]:

In [ ]: