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

Python Programming - 2101CS405

Lab - 8

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File handling

A

01) WAP to read entire file named abc.txt

In [6]:
```
f = open("abc.txt",'r')
f.read()
```

Out[6]:
```
'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tem
\npor incididunt ut labore et dolore magna aliqua. Tristique sollicitudin nib
\nh sit amet. Euismod elementum nisi quis eleifend quam adipiscing vitae. Feu
\ngiat in fermentum posuere urna nec tincidunt praesent. Sit amet consectetur
\nadipiscing elit pellentesque habitant. Ut placerat orci nulla pellentesque
\ndignissim. Laoreet id donec ultrices tincidunt arcu non sodales neque. Rhon
\ncus dolor purus non enim. Cursus eget nunc scelerisque viverra. Scelerisque
\neu ultrices vitae auctor eu augue. Potenti nullam ac tortor vitae purus fau
\ncibus. Porttitor massa id neque aliquam vestibulum morbi blandit cursus ris
\nus. Dolor morbi non arcu risus quis varius. Lacus vestibulum sed arcu non o
\ndio euismod lacinia. Lobortis feugiat vivamus at augue eget arcu dictum var
\nius. Fames ac turpis egestas maecenas. In nisl nisi scelerisque eu ultrices
\nvitae auctor eu. Eget nunc scelerisque viverra mauris. Urna porttitor rhonc
\nus dolor purus.'
```

02) WAP to print program it self on console.

In [7]:
```
f = open("abc.txt",'r+')
f.read()
```

Out[7]:
```
'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tem
\npor incididunt ut labore et dolore magna aliqua. Tristique sollicitudin nib
\nh sit amet. Euismod elementum nisi quis eleifend quam adipiscing vitae. Feu
\ngiat in fermentum posuere urna nec tincidunt praesent. Sit amet consectetur
\nadipiscing elit pellentesque habitant. Ut placerat orci nulla pellentesque
\ndignissim. Laoreet id donec ultrices tincidunt arcu non sodales neque. Rhon
\ncus dolor purus non enim. Cursus eget nunc scelerisque viverra. Scelerisque
\neu ultrices vitae auctor eu augue. Potenti nullam ac tortor vitae purus fau
\ncibus. Porttitor massa id neque aliquam vestibulum morbi blandit cursus ris
\nus. Dolor morbi non arcu risus quis varius. Lacus vestibulum sed arcu non o
\ndio euismod lacinia. Lobortis feugiat vivamus at augue eget arcu dictum var
\nius. Fames ac turpis egestas maecenas. In nisl nisi scelerisque eu ultrices
\nvitae auctor eu. Eget nunc scelerisque viverra mauris. Urna porttitor rhonc
\nus dolor purus.'
```

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

In [23]:
```
f = open("abc.txt",'r')

for i in range(6):
    print(f.readline())
```

```
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tem

por incididunt ut labore et dolore magna aliqua. Tristique sollicitudin nib

h sit amet. Euismod elementum nisi quis eleifend quam adipiscing vitae. Feu

giat in fermentum posuere urna nec tincidunt praesent. Sit amet consectetur

adipiscing elit pellentesque habitant. Ut placerat orci nulla pellentesque

dignissim. Laoreet id donec ultrices tincidunt arcu non sodales neque. Rhon
```

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

In [33]:
```
f = open("abc.txt",'r')
a = f.read()

l = a.split()
word = ""

for i in l:
    if len(word) < len(i):
        word = i

print(word)
```

```
sollicitudin
```

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

In [35]:
```
f = open("abc.txt","r")
a = f.read()
count = 0

for i in a:
    count += 1

print(count)
```

```
5015
```

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

In [47]:
```
f = open("abc.txt",'r')
count = 0
word = input()

for i in f:
    words = i.split(" ")
    for w in words:
        if(word == w.lower()):
            count += 1

print(count)
```

```
lorem
5
```

B

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

(Note: each number should be in new line)

In [62]:
```
f = open("primenumbers.txt",'w')
count = 0
i = 1
while(count <= 100):
    for j in range(2,i//2+1):
        if(i%j == 0):
            break
    else:
        count += 1
        f.write(str(i) + "\n")
    i += 1

b=open("primenumbers.txt",'r')
print(b.read())
```

```
1
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
101
103
107
109
113
127
131
137
139
149
151
157
163
167
173
179
181
191
193
197
199
211
223
227
229
233
239
241
251
257
263
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401
409
419
421
431
433
439
443
449
457
461
463
467
479
487
491
499
503
509
521
523
541
```

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

In [66]:
```
f = open("merge.txt",'w')
f1 = open("primenumbers.txt",'r')
f2 = open("abc.txt",'r')

F1 = f1.read()
F2 = f2.read()

f.write(F1)
f.write(F2)
```

Out[66]:
```
5015
```

03) WAP to encrypt a text file.

In [14]:
```
f = open("abc.txt",'r+')
f1 = open("cba.txt",'w')
a = f.read()
b = ""
for i in a:
    b = ord(i) + 1
    f1.write(chr(b))
```

04) WAP to decrypt a previously encrypted file.

In [16]:
```
f1 = open("cba.txt",'r+')
f2 = open("bca.txt",'w')
a = f1.read()
b = ""
for i in a:
    b = ord(i) - 1
    f2.write(chr(b))
```

05) WAP to remove a word from text file.

In [39]:
```
c = input("Enter A word")
f = open("abc.txt",'r')
f1 = open("removeword.txt",'a')
a = f.read().split(" ")

for i in a:
    if i == c:
        a.remove(i)

for i in a:
    f1.write(i+" ")

print(a)
```

```
Enter A wordLorem
['ipsum', 'dolor', 'sit', 'amet,', 'consectetur', 'adipiscing', 'elit,', 'se
d', 'do', 'eiusmod', 'tem\\npor', 'incididunt', 'ut', 'labore', 'et', 'dolor
e', 'magna', 'aliqua.', 'Tristique', 'sollicitudin', 'nib\\nh', 'sit', 'ame
t.', 'Euismod', 'elementum', 'nisi', 'quis', 'eleifend', 'quam', 'adipiscin
g', 'vitae.', 'Feu\\ngiat', 'in', 'fermentum', 'posuere', 'urna', 'nec', 'tin
cidunt', 'praesent.', 'Sit', 'amet', 'consectetur\\nadipiscing', 'elit', 'pel
lentesque', 'habitant.', 'Ut', 'placerat', 'orci', 'nulla', 'pellentesque\\nd
ignissim.', 'Laoreet', 'id', 'donec', 'ultrices', 'tincidunt', 'arcu', 'non',
'sodales', 'neque.', 'Rhon\\ncus', 'dolor', 'purus', 'non', 'enim.', 'Cursu
s', 'eget', 'nunc', 'scelerisque', 'viverra.', 'Scelerisque\\neu', 'ultrice
s', 'vitae', 'auctor', 'eu', 'augue.', 'Potenti', 'nullam', 'ac', 'tortor',
'vitae', 'purus', 'fau\\ncibus.', 'Porttitor', 'massa', 'id', 'neque', 'aliqu
am', 'vestibulum', 'morbi', 'blandit', 'cursus', 'ris\\nus.', 'Dolor', 'morb
i', 'non', 'arcu', 'risus', 'quis', 'varius.', 'Lacus', 'vestibulum', 'sed',
'arcu', 'non', 'o\\ndio', 'euismod', 'lacinia.', 'Lobortis', 'feugiat', 'viva
mus', 'at', 'augue', 'eget', 'arcu', 'dictum', 'var\\nius.', 'Fames', 'ac',
'turpis', 'egestas', 'maecenas.', 'In', 'nisl', 'nisi', 'scelerisque', 'eu',
'ultrices\\nvitae', 'auctor', 'eu.', 'Eget', 'nunc', 'scelerisque', 'viverr
a', 'mauris.', 'Urna', 'porttitor', 'rhonc\\nus', 'dolor', 'purus.', '', '',
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In [ ]: