Darshan UNIVERSITY

योगः कर्मसु कौशलम्

Python Programming - 2101CS405

Lab - 8

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File handling

A

01) WAP to read entire file named abc.txt

In [1]:
```
f= open("abc1.txt","r")
print(f.read())
f.close()
```

```
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itor rhoncus dolor purus.
```

02) WAP to print program it self on console.

In [7]:
```
f=open("demo.py","r")
f.read()
```

Out[7]: 'def add(a,b):print(a+b)'

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

In [9]:
```
f= open("abc.txt","r")
# f.seek(0)
for i in range(5):
    print(f.readline())
f.close()
```

```
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t ut labore et dolore magna aliqua.

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ng vitae.

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ntesque dignissim.

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

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

In [10]:
```
file = open("abc.txt","r")
words = file.read().split()
print(max(words,key=len))
```

```
sollicitudin
```

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

In [4]:
```
f= open("abc.txt","r")
f.seek(0)
print(len(f.read()))
```

```
993
```

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

In [18]:
```
f= open("abc.txt","r")
f.seek(0)
l1=f.read().split(" ")
str1=input("Enter word : ")
wc=0
wc=l1.count(str1)

if wc==0:
    print("Word does not Exist")
else:
    print(wc,"time occurance")
```

```
1 time occurance
```

B

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

(Note: each number should be in new line)

In [6]:
```
file = open("Prime Numbers.txt", "w")
for i in range(2, 101):
    for j in range(2, i//2+1):
        if i % j == 0:
            break
    else:
        file.write(str(i)+'\n')
file.close()
```

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

In [7]:
```
d1=d2=""
f=open("abc.txt","r")
d1+=f.read();
f1=open("hello.txt","r")
d2+=f1.read();
d1+="\n"
d1+=d2
f3=open("output.txt","w+")
f3.write(d1)
f3=open("output.txt","r")
f3.read()
```

Out[7]:
```
'Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididu
nt ut labore et dolore magna aliqua. Tristique sollicitudin nibh sit amet. Euismod eleme
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celerisque eu ultrices vitae auctor eu. Eget nunc scelerisque viverra mauris. Urna portt
itor rhoncus dolor purus.\nI am Bhagyesh Vyas'
```

03) WAP to encrypt a text file.

In [2]:
```
word = input("Enter Word : ")
key = int(input("Enter Key : "))
encoded = ""
with open("encrypt.txt", "w") as encrypt:
    for i in word:
        asciii = ord(i)+key
        if i.islower():
            encoded +=chr((asciii//123)*97+asciii % (123))
        else:
            encoded = encoded + chr((asciii//91)*65+asciii % (91))
    encrypt.write(encoded)
```

04) WAP to decrypt a previously encrypted file.

In [3]:
```
key = int(input("Enter Key : "))
decoded = ""
with open("decrypt.txt", "w") as decrypt:
```

```
    with open("encrypt.txt", "r") as encrypt:
        for i in encrypt.read():
            asc = ord(i)-key
            if (i.islower() and asc < 97) or (i.isupper() and asc < 65):
                asc = 26+asc
            decoded = decoded + chr(asc)
        decrypt.write(decoded)
```

05) WAP to remove a word from text file.

In [23]:
```
f=open("abc1.txt","r")
list=f.read().split()
print("Original List : ",list)
word=input("Enter word to remove from file : ")
list.remove(word)
print("List after removal of word : ",list)
```

```
Original List :  ['Lorem', 'ipsum', 'dolor', 'sit', 'amet,', 'consectetur', 'adipiscin
g', 'elit,', 'sed', 'do', 'eiusmod', 'tempor', 'incididunt', 'ut', 'labore', 'et', 'dolo
re', 'magna', 'aliqua.', 'Tristique', 'sollicitudin', 'nibh', 'sit', 'amet.']

List after removal of word :  ['Lorem', 'ipsum', 'dolor', 'amet,', 'consectetur', 'adipi
scing', 'elit,', 'sed', 'do', 'eiusmod', 'tempor', 'incididunt', 'ut', 'labore', 'et',
'dolore', 'magna', 'aliqua.', 'Tristique', 'sollicitudin', 'nibh', 'sit', 'amet.']
```