In [15]:
```
#Exercise
#Write a python program to count the number of lines in a text file.
lines=0
f=open("demofile.txt","r")
for i in f:
    lines=lines+1
print(lines)
```

```
4
```

In [17]:
```
#Write a python program to count words, characters and spaces from a text file.
space=0
word=1
ch=0
f=open("demofile2.txt",'r')
data=f.read()
print(data)
for i in data:
    ch+=1
    if(i==' '):
        space+=1
    if(i==" " or i=='\n'):
        word+=1
print("No. of words:",word)
print("No. of space:",space)
print("No. of char:",ch-1)
```

```
Good Morning!
Welcome to the class of Python-Working with files

No. of words: 11
No. of space: 8
No. of char: 63
```

In [9]:
```
#Write a program Count occurrence of each word in given text file (Using dictionary)
# Open the file in read mode
#For running we need to create first sample text file
text = open("sample.txt", "r")
# Create an empty dictionary
d = dict()
# Loop through each line of the file
for line in text:
# Remove the leading spaces and newline character
    line = line.strip()
# Convert the characters in line to
# lowercase to avoid case mismatch
    line = line.lower()
# Split the line into words
    words = line.split(" ")
# Iterate over each word in line
    for word in words:
# Check if the word is already in dictionary
        if word in d:
# Increment count of word by 1
            d[word] = d[word] + 1
        else:
# Add the word to dictionary with count 1
            d[word] = 1
```

```
# Print the contents of dictionary
for key in list(d.keys()):
    print(key,":", d[key])
```

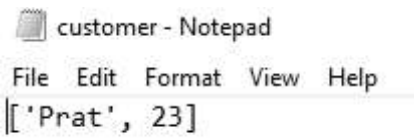
```
hello : 1
good : 1
morning! : 1
my : 1
name : 1
is : 1
alpha. : 1
today : 1
we : 1
are : 1
going : 1
to : 1
learn : 1
about : 1
files : 1
counts, : 1
words : 1
and : 1
characters. : 1
```

In [18]:
```
#Write a program to accept string/sentences from the user till the user enters "END" t
#Save the data in a text file and then display only those sentences which begin with a
f = open("Pathwalla.txt","w")
while True :
        sen = input("Enter something ( for quit enter END ) :-")
        if sen == "END" :
                break
        else :
                f.write(sen + "\n")
f.close()
print()
print("The Lines started with Capital letters are :-")
f = open("Pathwalla.txt","r")
print()
data = f.readlines()
for i in data :
        if i[0].isupper() :
                print(i)
f.close()
```

```
Enter something ( for quit enter END ) :-Friends are crazy, Friends are naughty !
Enter something ( for quit enter END ) :-Friends are honest, Friends are best !
Enter something ( for quit enter END ) :-Friends are like keygen, friends are like li
cense key !
Enter something ( for quit enter END ) :-We are nothing without friends, Life is not
possible without friends !
Enter something ( for quit enter END ) :-END

The Lines started with Capital letters are :-

Friends are crazy, Friends are naughty !

Friends are honest, Friends are best !

Friends are like keygen, friends are like license key !

We are nothing without friends, Life is not possible without friends !
```

In [22]:
```
#Write a function cust_data() to
#ask user to enter their names and age to store data in customer.txt file.
def cust_data():
    name = input("Enter customer name:")
    age=int(input("Enter customer age:"))
    data = str([name,age])
    f = open("customer.txt","w")
    f.write(data)
    f.close()
cust_data()
```

```
Enter customer name:Prat
Enter customer age:23
```



In [23]:
```
#Write a python program to create and read the city.txt file
#in one go and print the contents on the output screen.
# Creating file with open() function
f=open("city.txt","w")
f.write("My city is very clean city.")
f.close()
# Reading contents from city.txt file
f=open("city.txt","r")
dt = f.read()
print(dt)
f.close()
```

```
My city is very clean city.
```

In [25]:
```
# Write a function count_lines() to count and display the total number of lines from t
#Consider above file – friends.txt.
"""Friends are crazy, Friends are naughty !
Friends are honest, Friends are best !
Friends are like keygen, friends are like license key !
```

```
We are nothing without friends, Life is not possible without friends !
"""
def count_lines():
    f = open("friends.txt")
    cnt =0
    for lines in f:
        cnt+=1
    print("no. of lines:",cnt)
    f.close()
count_lines()
```

```
no. of lines: 4
```

In [27]:
```
"""Write a function display_oddLines()
to display odd number lines from the text file.
Friends are crazy, Friends are naughty !
Friends are honest, Friends are best !
Friends are like keygen, friends are like license key !
We are nothing without friends, Life is not possible without friends !
"""
def display_oddLines():
    f = open("friends.txt")
    cnt =0
    for lines in f:
        cnt+=1
        if cnt%2!=0:
            print(lines)
    f.close()
display_oddLines()
```

```
Friends are crazy, Friends are naughty !

Friends are like keygen, friends are like license key !
```

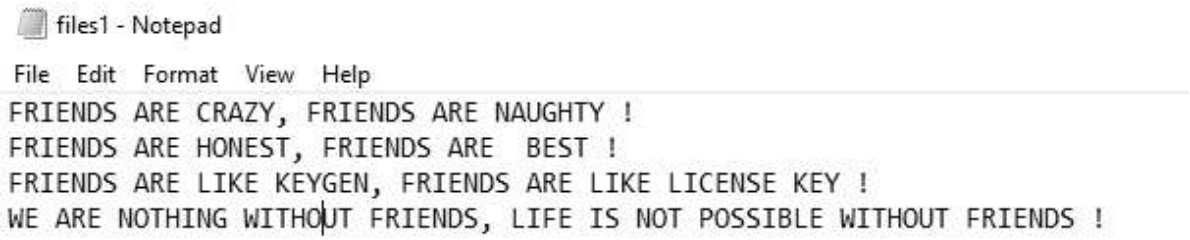
In [29]:
```
"""Write a python program that reads a text file and changes the file by capitalizing
each character of file."""
totContent = ""
print("Enter the Name of File: ")
fileName = str(input())
fileHandle = open(fileName, "r")

for content in fileHandle:
    newContent = content.upper()
    totContent = totContent + newContent

fileHandle.close()
fileHandle = open(fileName, "w")
fileHandle.write(totContent)

print("All Characters Capitalized Successfully!")
fileHandle.close()
```

```
Enter the Name of File:
friends.txt
All Characters Capitalized Successfully!
```

In [30]:
```
"""Write a Python program to copy the contents of a file to another file."""
```

```
print("Enter the Name of Source File: ")
sFile = input()
print("Enter the Name of Target File: ")
tFile = input()

fileHandle = open(sFile, "r")
texts = fileHandle.readlines()
fileHandle.close()

fileHandle = open(tFile, "w")
for s in texts:
    fileHandle.write(s)
fileHandle.close()

print("\nFile Copied Successfully!")
```

```
Enter the Name of Source File:
friends.txt
Enter the Name of Target File:
files1.txt

File Copied Successfully!
```

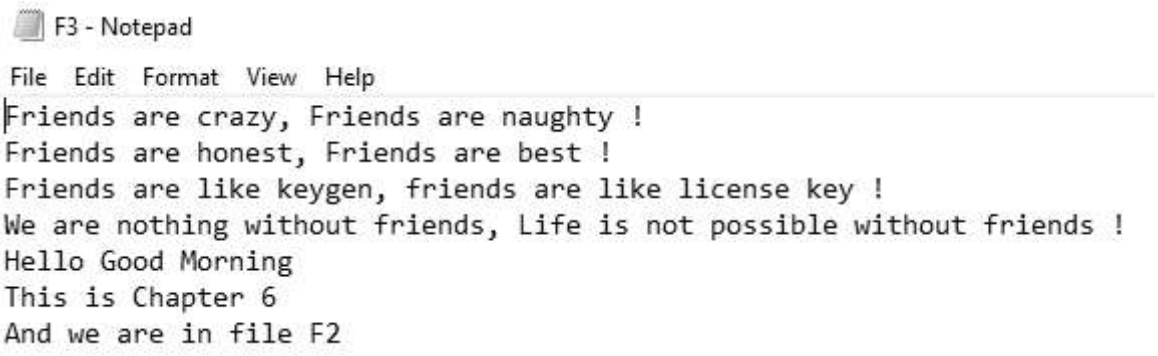


In [31]:
```
"""Write a python program to find the longest words in a read file. """
def longest_word(filename):
    with open(filename, 'r') as infile:
              words = infile.read().split()
    max_len = len(max(words, key=len))
    return [word for word in words if len(word) == max_len]

print(longest_word('friends.txt'))
```

```
['FRIENDS,', 'POSSIBLE']
```

In [33]:
```
"""Write a python program to read line by line from a given files file1 & file2 and wr
into file3. """
data = data2 = ""

# Reading data from file1
with open('F1.txt') as fp:
    data = fp.read()
# Reading data from file2
with open('F2.txt') as fp:
    data2 = fp.read()
# Merging 2 files
# To add the data of file2
# from next line
```

```
data += "\n"
data += data2

with open ('F3.txt', 'w') as fp:
    fp.write(data)
```



In [34]:
```
"""Write a python program to read whole text file line by line."""
with open("friends.txt") as f:
    content_list = f.readlines()

# print the list
print(content_list)

# remove new line characters
content_list = [x.strip() for x in content_list]
print(content_list)
```

```
['FRIENDS ARE CRAZY, FRIENDS ARE NAUGHTY !\n', 'FRIENDS ARE HONEST, FRIENDS ARE  BEST
!\n', 'FRIENDS ARE LIKE KEYGEN, FRIENDS ARE LIKE LICENSE KEY !\n', 'WE ARE NOTHING WI
THOUT FRIENDS, LIFE IS NOT POSSIBLE WITHOUT FRIENDS !']
['FRIENDS ARE CRAZY, FRIENDS ARE NAUGHTY !', 'FRIENDS ARE HONEST, FRIENDS ARE  BEST
!', 'FRIENDS ARE LIKE KEYGEN, FRIENDS ARE LIKE LICENSE KEY !', 'WE ARE NOTHING WITHOU
T FRIENDS, LIFE IS NOT POSSIBLE WITHOUT FRIENDS !']
```

In [37]:
```
"""Write a python program to search for a string in text files"""
def search_str(file_name, word):
    with open(file_name, 'r') as file:
        # read all content of a file
        content = file.read()
        # check if string present in a file
        if word in content:
            print('string exist in a file')
        else:
            print('string does not exist in a file')

search_str('F3.txt', 'Friends')
```

```
string exist in a file
```

In [38]:
```
""" Write a Python program to remove newline characters from a file."""
def remove_newlines(fname):
    flist = open(fname).readlines()
    return [s.rstrip('\n') for s in flist]

print(remove_newlines("F1.txt"))
```

```
['Friends are crazy, Friends are naughty !', 'Friends are honest, Friends are best
!', 'Friends are like keygen, friends are like license key !', 'We are nothing withou
t friends, Life is not possible without friends !']
```

In [39]:
```
"""Write a Python program to assess if a file is closed or not."""
f = open('F1.txt','r')
print(f.closed)
f.close()
print(f.closed)
```

```
False
True
```

In [41]:
```
"""Python program to find the most repeated word
in a text file"""
# Python program to find the most repeated word
# in a text file

# A file named "gfg", will be opened with the
# reading mode.
file = open("F1.txt","r")
frequent_word = ""
frequency = 0
words = []

# Traversing file line by line
for line in file:

    # splits each line into
    # words and removing spaces
    # and punctuations from the input
    line_word = line.lower().replace(',','').replace('.','').split(" ");

    # Adding them to list words
    for w in line_word:
        words.append(w);

# Finding the max occurred word
for i in range(0, len(words)):

    # Declaring count
    count = 1;

    # Count each word in the file
    for j in range(i+1, len(words)):
        if(words[i] == words[j]):
            count = count + 1;

    # If the count value is more
    # than highest frequency then
    if(count > frequency):
        frequency = count;
        frequent_word = words[i];

print("Most repeated word: " + frequent_word)
print("Frequency: " + str(frequency))
file.close();
```

```
Most repeated word: friends
Frequency: 8
```

In [11]:

```
"""Write a "pager" program. Your solution should prompt for a filename,
and display the text file 25 lines at a time,
pausing each time to ask the user to "press a key to continue"."""
print("Enter the Name of Source File: ")
sFile = input()
f = open(sFile, "r")
flag = False
count=0
while True:
    if flag == True:
        break
    print(f.readline())
    count+=1
    if count == 25:
        count = 0
        read_next = input('Read more lines? Enter y or n')
        if read_next == 'n':
            flag = True
```

```
Enter the Name of Source File:
pager.txt
1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Read more lines? Enter y or ny
26

2
```

```
7

2

8
```

```
Read more lines? Enter y or nn
```

In [ ]: