# Practical No: 5

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## Batch: C1

## Roll no: 13

1.Write a program that reads a file and performs the following tasks:

2.Count and display the term frequencies of all the words [exclude stop words like- the, a, and] and find the keyword for the document & write the output in a separate file.

3.Now read the file created in a). .Your program should convert all the input to lowercase & display the updated count.

In [4]:
```
#a
import keyword
keys = keyword.kwlist
f1=open("sample.txt","r")
content=f1.read()
content2=content.split(' ')
stopword=["the","a","and"]
newtext=[x for x in content2 if x not in stopword]
' '.join(newtext)
d=dict()
for i in newtext:
  words=i.split(" ")
  for word in words:
    if word in d:
      d[word]=d[word]+1
    else:
      d[word]=1
for key in list(d.keys()):
  print(key,":", d[key])
for i in range (len(newtext)):
  if keyword.iskeyword(newtext[i]):
    print(newtext[i] + " is a keyword")
f2=open("sam1.txt","w")
f2.write(str(d))
```

```
The : 1
drama : 1
Train : 1
To : 1
Busan : 1
empathized : 1
on : 1
morality,behaviour,kindness : 1
humanity : 1
offered : 1
in : 1
this : 1
world : 1
instead : 1
of : 1
focussing : 1
zombie : 1
apocalypse. : 1
in is a keyword
```

Out[4]: 246

In [7]:
```
#b
for i in newtext:
  i=i.lower()
  words=i.split(" ")
  for word in words:
    if word in d:
      d[word]=d[word]+1
    else:
      d[word]=1
for key in list(d.keys()):
  print(key,":", d[key])
```

```
The : 1
drama : 4
Train : 1
To : 1
Busan : 1
empathized : 4
on : 4
morality,behaviour,kindness : 4
humanity : 4
offered : 4
in : 4
this : 4
world : 4
instead : 4
of : 4
focussing : 4
zombie : 4
apocalypse. : 4
the : 3
train : 3
to : 3
busan : 3
```

Write a program to read through the mailbox data and when you find a line that starts with “From”, you will split the line into words using the split function. We are interested in who sent the message, which is the second word on the From line. Example: From stephen.marquard@uct.ac.za (mailto:stephen.marquard@uct.ac.za) Sat Jan 5 09:14:16 2008 [Note: first create such file] You will parse the From line and print out the second word for each From line, then you will also count the number of From lines and print out a count at the end.

In [ ]:
```
with open("que.txt",'r') as data_file:
    for line in data_file:
        data = line.split()[1]
        print("the required address is: ")
        print(data)
```

```
the required address is:
stephen.marquard@uct.ac.za
the required address is:
purva.gholse@gmail.com
the required address is:
abcd@gmail.com
the required address is:
pqrs@gmail.com
the required address is:
wxyz@gmail.com
```

In [8]:
```
with open("que.txt",'r') as data_file:
  count=len(data_file.readlines())
  print("the count will be: ",count)
```

```
the count will be:  6
```

Write a program using functions and file. The create_file function writes information to the file “food.txt”. The contents_of_file function takes the names of the food items as arguments and returns the information of the food item in a nicely formatted block. The file should have contents like- Name of the item, ingrediants, recepie, star, etc. Further read the file and find all the items, create a list of itemname and display.

In [9]:
```
f=open("hunger.txt","w")
with open("hunger.txt","w") as f:
  n=int(input("enter the number of items: "))
  for x in range (n):
    a=str(input("name of the item: "))
    b=str(input("ingredients: "))
    c=str(input("recepie: "))
    d=str(input("star: "))
    new_line="\n"
    f.write("item name")
    f.write(new_line)
    f.write(a)
    f.write(new_line)
    f.write("ingredients ")
    f.write(new_line)
    f.write(b)
    f.write(new_line)
    f.write("recipie")
    f.write(new_line)
    f.write(c)
    f.write(new_line)
    f.write("star")
    f.write(new_line)
    f.write(d)
f.close()
```

```
enter the number of items: 4
name of the item: Bhel
ingredients: Murmure Chatni Pyaj Aaloo
recepie: Mix every item well and
star: 5
name of the item: Cheese Corn Sandwich
ingredients: cheese corn bread mayo
recepie: Put corn-paste between the two bread slices
star: 5
name of the item: Softy
ingredients: Icecream cone
recepie: put the icecream on the top of the cone
star: 5
name of the item: Maggi
ingredients: maggi maggi-masala salt water
recepie: boil the noodles in water add the masala with a pinch of salt and af
ter 2 min your maggi will be ready
star: 5
```

In [10]:
```
p=open("hunger.txt","r")
print(p.read())
```

```
item name
Bhel
ingredients
Murmure Chatni Pyaj Aaloo
recipie
Mix every item well and
star
5item name
Cheese Corn Sandwich
ingredients
cheese corn bread mayo
recipie
Put corn-paste between the two bread slices
star
5item name
Softy
ingredients
Icecream cone
recipie
put the icecream on the top of the cone
star
5item name
Maggi
ingredients
maggi maggi-masala salt water
recipie
boil the noodles in water add the masala with a pinch of salt and after 2 min
your maggi will be ready
star
5
```

In [ ]: