In [4]:
```
def readFilewordcount(filepath):
    c=0
    with open(filepath,'r') as f:
        filedata=f.read().split()
        print(len(filedata))
        print(filedata)
filepath="./DataFiles/file1.txt"
print(readFilewordcount(filepath))
```

```
12
['Welcome', 'satheesh', 'goodEvening', 'satheesh', 'are', 'you', 'single', 'ye
s', 'ohhhh!!!!', 'why', 'dude', '?']
None
```

In [1]:
```
def uniqueData(li):
    unique=[]
    for element in li:
        if element not in unique:
            unique.append(element)
    return unique
li=[1,2,3,3,4,1]
uniqueData(li)
```

Out[1]:
```
[1, 2, 3, 4]
```

In [26]:
```
#frequency distribution data


def frequencydist(filepath):
    #dictionary to use to store
    # key-->unique words
    #values..>count of unique words

    # two lists
        #allowwords list
        #unique word list
    #set
    allwords=wordsFromFile(filepath)
    uniquewords=uniqueData(filepath)
    for word in uniquewords:
        count1=allwords.count(word)
        print(count1)
    return
    #     unique=[]
#     for element in allwords:
#         if element not in unique:
#             unique.append(element)
#     return unique
filepath="./DataFiles/file1.txt"
frequencydist(filepath)
```

```
0
0
0
0
0
0
0
0
0
0
0
0
0
```

In [ ]:
```

```

In [22]:
```
def readFile(filepath):
    with open(filepath,'r') as f:
        filedata=f.read()
    return filedata
filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
Welcome satheesh
goodEvening satheesh
are you single
yes ohhhh!!!!
why dude
```

In [2]:
```
def csvToList(filename):
    with open(filename,'r') as f:
        f1=[]
        for line in f:
            f1.append(line.split(sep=','))
        return f1
csvToList('DataFiles/file1.txt')
```

Out[2]:
```
[['Welcome satheesh\n'],
 ['goodEvening satheesh\n'],
 ['are you single\n'],
 ['yes ohhhh!!!!\n'],
 ['why dude']]
```

In [5]:
```

```

Out[5]:
```
-1
```

In [23]:
```
#find and replace application
    #count total no of occurances of a word
    #if word is existing in line yes or no
    #Replace all occurances with another word
# def replaceapplication(filepath):



import re
# def wordcountFile(filepath):
#     pattern='[\n]'
#     filedata=readFile(filepath)
#     count=len(re.split(pattern,filedata))
#     return count
# filepath="/DataFiles/file1.txt"
def wordsFromFile(filepath):
    pattern='[\n]'
    filedata=readFile(filepath)
    allwordsList=re.split(pattern,filedata)
    return allwordsList
filepath="./DataFiles/file1.txt"
wordsFromFile(filepath)
```

Out[23]:
```
['Welcome satheesh',
 'goodEvening satheesh',
 'are you single',
 'yes ohhhh!!!!',
 'why dude']
```

In [27]:
```
# function to generate marks data for n students
    #generate marks for students

from random import randint
def generatemarks(n,lb,ub):
    l=[]
    with open("DataFiles/marks.txt",'w') as f:
        for i in range(0,n):
            r=randint(lb,ub)

            f.write(str(r)+"\n")

    return
generatemarks(10000,0,100)
```

In [40]:
```
from random import randint
def generatemarks(n,lb,ub):
    l=[]
    l1=[]
    l2=[]
    l3=[]
    l4=[]
    l5=[]
    with open("DataFiles/marks1.txt",'w') as f:
        for i in range(0,n):
            r=randint(lb,ub)
            r1=randint(lb,ub)
            r2=randint(lb,ub)
            r3=randint(lb,ub)
            r4=randint(lb,ub)
            r5=randint(lb,ub)
            l=f.write(str(r)+",")
            l2=f.write(str(r2)+",")
            l3=f.write(str(r3)+",")
            l4=f.write(str(r4)+",")
            l5=f.write(str(r5)+",")
            l1=f.write(str(r1)+",")
#         for j in range(0,6):
#             print(l[j])
generatemarks(6,0,100)
```

In [8]:
```
#replace data
# def searchwithreturn(filename,name):
#     f=csvToList(filename)
#     flag=0
#     for i in range(len(f)):
#         if name==f[i]:
#             flag=1
#             return 1
#     if flag==False:
#         return -1
# searchwithreturn('DataFiles/file1.txt',"Welcome satheesh")
def data(filename):
    with open(filename,"r") as f:
        f=f.read()
        for i in f:
            print(i,end="")
filename="./DataFiles/file1.txt"
data(filename)
```

```
Welcome satheesh
goodEvening satheesh
are you single
yes ohhhh!!!!
why dude
```

In [ ]:
```
#data search
def datasearch(filename,name):



filename="./Data"
```