In [1]:
```
#Writing to a text File
def numwords(name):
    infile = open('faaiz.txt','r')
    content = infile.read()
    infile.close()

    wordList = content.split()
    print(wordList)

    return len(wordList)
numwords('faaiz.txt')
```

```
['Pakistan,', 'populous', 'and', 'multiethnic', 'country', 'of', 'South', 'Asi
a.', 'Having', 'a', 'predominately', 'Indo-Iranian', 'speaking', 'population,',
'Pakistan', 'has', 'historically', 'and', 'culturally', 'been', 'associated',
'with', 'its', 'neighbours', 'Iran,', 'Afghanistan,', 'and', 'India.', 'Since',
'Pakistan', 'and', 'India', 'achieved', 'independence', 'in', '1947,', 'Pakista
n', 'has', 'been', 'distinguished', 'from', 'its', 'larger', 'southeastern', 'n
eighbour', 'by', 'its', 'overwhelmingly', 'Muslim', 'population']
```

Out[1]: 50

In [3]:
```
# Example :1
def numlines(name):
    infile =open('faaiz.txt', 'r')
    lineList = infile.readlines()
    infile.close()

    print(lineList)
    return len(lineList)
numlines('faaiz.txt')
```

```
['Pakistan, populous and multiethnic country of South Asia. Having a predominat
ely Indo-Iranian speaking population, Pakistan has historically and culturally
been associated with its neighbours Iran, Afghanistan, and India. Since Pakista
n and India achieved independence in 1947, Pakistan has been distinguished from
its larger southeastern neighbour by its overwhelmingly Muslim population ']
```

Out[3]: 1

In [5]:
```
# Program 1
def file(name):
    infile =open('faaiz.txt', 'r')
    lineList = infile.readlines()
    infile.close()
    infile =open('faaiz.txt', 'r')
    content = infile.read()

    print("Number of Words:",len(content.split()))
    print("Number of Line:",len( lineList))
    print("Number of characteristics:",len(content))
file('faaiz')
```

```
Number of Words: 50
Number of Line: 1
Number of characteristics: 389
```

In [6]:
```
# Program 2
def distribution(filename):
    infile = open('grades.txt','r')
    grades = infile.read()
    infile.close()
    a = grades.count("A")
    am = grades.count("A-")
    bp = grades.count("B+")
    b = grades.count("B")
    bm = grades.count("B-")
    cp = grades.count("C+")
    c = grades.count("C")
    cm = grades.count("C-")
    f = grades.count("F")
    print(a,"students got A")
    print(am,"students got A-")
    print(bp,"students got B+")
    print(b,"students got B")
    print(bm,"students got B-")
    print(cp,"students got C+")
    print(c,"students got C")
    print(cm,"students got C-")
    print(f,"students got F")
distribution('grades')
```

```
5 students got A
2 students got A-
3 students got B+
7 students got B
2 students got B-
2 students got C+
4 students got C
1 students got C-
2 students got F
```

In [19]:
```
# Program 3
def duplicate(name):
    infile = open('grades.txt','r')
    grades = infile.read()
    infile.close()
    a = grades.count("A")
    am = grades.count("A-")
    bp = grades.count("B+")
    b = grades.count("B")
    bm = grades.count("B-")
    cp = grades.count("C+")
    c = grades.count("C")
    cm = grades.count("C-")
    f = grades.count("F")
    if a > 1 or am > 1 or bp > 1 or b > 1 or bm > 1 or cp > 1 or c > 1 or cm > 1

        print("True")
    else:
        print("False")

duplicate('grades')
```

```
True
```

In [43]:
```
# Program 4
def abc(name):
    infile = open('file.txt','r')
    file = infile.read()
    infile.close()
    lst=file.split()
    for i in lst:
        if len(i) == 4:
            outfile = open('file.txt','w')
            b= outfile.write('xxxx')
            i.replace("i","xxxx")
            outfile.close()
            print(b)
abc('file')
```

```
4
```

In [ ]: