File handling (Recap)

- Basic file data processing
  - accessing and modify file data
- character count
- line count
- file count
- word count
- unique word count

In [30]:
```
# count characters
def readFile(filepath):
    c=0
    with open(filepath,'r') as f:
        filedata=f.read()
        for i in filedata:
            c=c+1
        return c
filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
77
```

In [29]:
```
# count words
def readFile(filepath):
    c=0
    with open(filepath,'r') as f:
        filedata=f.read().split()
        print(len(filedata))
filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
12
None
```

In [28]:
```
# count lines
def readFile(filepath):
    c=0
    with open(filepath,'r') as f:
        for i in f:
            c=c+1
        return c
filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
6
```

In [22]:
```
#read file and it should exist(Read mode)
#write to file-existing(append mode) or new file(write mode)
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 [98]:
```
#unique word count
def readFile(filepath):
    uniqueword=[]
    with open(filepath,'r') as f:
        filedata=f.read().split()
        print(filedata)
        for word in filedata:
            if (filedata.count(word)==1) and (word not in uniqueword):
                uniqueword.append(word)
            else:
                continue
        c=0
        for a in uniqueword:
            print(a,end=" ")
            c=c+1
        print(c)

filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
['Welcome', 'satheesh', 'goodEvening', 'satheesh', 'are', 'you', 'single', 'ye
s', 'ohhhh!!!!', 'why', 'dude', '?']
Welcome goodEvening are you single yes ohhhh!!!! why dude ? 10
None
```

In [ ]:
```

```

In [51]:
```
#unique word count
def readFile(filepath):
    uniqueword=[]
    with open(filepath,'r') as f:
        filedata=f.read().split()
        a=list(dict.fromkeys(filedata))
    print(a)
    a=str(a)


filepath="./DataFiles/file1.txt"
print(readFile(filepath))
```

```
['Welcome', 'satheesh', 'goodEvening', 'are', 'you', 'single', 'yes', 'ohhh
h!!!!', 'why', 'dude', '?']
None
```

In [97]:
```
uniqueword=[]
a="abc"
b="abd"
co=0
c=[]
d=[]
f=[]
zzz=0
for i in range(0,len(a)):
    zz=a[i]
    c.append(zz)
print(c)
for j in range(0,len(b)):
    zzz=b[j]
    d.append(zzz)
print(d)
for t in c:
    for y in d:
        if t==y:
            continue
        else:
            c=co+1
    print(co)

#         for word in filedata:
#             if (filedata.count(word)==1) and (word not in uniqueword):
#                 uniqueword.append(word)
#             else:
#                 continue
#         c=0
#         for a in uniqueword:
#             print(a,end=" ")
#             c=c+1
#         print(c)
```

```
['a', 'b', 'c']
['a', 'b', 'd']
0
0
0
```

In [ ]:

In [ ]: