Day Objectives

- File Handling
  - Basic file data processing
    - Acessing and modifying file data
  - Character count
  - Line count
  - file size
  - word count
  - unique word count

In [23]:
```
# Read  a file - file should exist
# Write to a file- Existing or new file
# Function to read entire file data into a single string

def readfile(filepath):
    with open(filepath,'r') as f:
        #print(type(f))
        filedata=f.read()         # reads the entire data
    return filedata
filepath='DataFiles/data.txt'
print(readfile(filepath))


```

```
new data
line2\line3line2
line3Line2
Line3line4line 5Line3line4line 5line4
line 5
Line4
Line 5
```

In [36]:
```
# Character count

def charcount(filepath):
    with open(filepath,'r') as f:
        filedata=f.read()
        count=0
        for i in filedata:
            if i==" " or i=="\n" :
                count=count+0
            else:
                count=count+1
        return count
filepath='DataFiles/data.txt'
print(charcount(filepath))
```

```
83
```

In [39]:
```
# Line count

def linecount(filepath):
    with open(filepath,'r') as f:
        #filedata=f.read()
        count=0
        for i in f:
            if i!="\n":
                count=count+1
        return count
filepath='DataFiles/data.txt'
print(linecount(filepath))


```

```
7
```

In [56]:
```
# Word count

def wordcount(filepath):
    no_words=0
    with open(filepath,'r') as f:
        #filedata=f.read()
        for line in f:
            words=line.split()
            no_words += len(words)
    #print("number of words:")
    print(no_words)

#filepath='DataFiles/data.txt'
print(wordcount(filepath))
```

```
12
None
```

In [109]:
```
d=int(input())
c=0
for i in range(d):
    li=input().split()
    r=int(li[0])
    x=int(li[1])
    if(2*22/7*r <= 100*x):
        c=c+1
print(c)
```

```
3
3 2
5 2
1 2
3
```

In [51]:
```
num_words=0
with open(filepath, 'r') as f:
    for line in f:
        words = line.split()
        num_words += len(words)
print("Number of words:")
print(num_words)
```

```
Number of words:
12
```

In [63]:
```
s="srikanya"
#s.capitalize()
#s.lower()
#s.swapcase()
#s.title()
s.upper()
```

Out[63]: 'SRIKANYA'

In [103]:
```
s1="sri"
s2="hari"
s3=s1+s2
print(s3)
s.count(s3)
s3.center(50)
s3.isspace()
s3.rjust(50)
s3.join('123')
```

```
srihari
```

Out[103]: '1srihari2srihari3'

In [73]:
```
if s2 in s1:
    print("True")
else:
    print("False")
```

```
False
```

In [108]:
```
len(s3)
max(s3)
min(s3)
s3[1]
s3*2
s3[1:7:3]
s.count(s3)
s.partition(s2)
```

Out[108]: ('srikanya', '', '')