Day Objectives:

- File Handling
  - Basic File Data Processing
    - Accessing and Modifying File Data
  - Character Count
  - Line Count
  - FileSize
  - Word Count
  - Unique Word Count

In [4]:
```
# Read a File - File Should Exist(read mode)
# Write into a 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/data.txt'
print(readFile(filePath))

```

```
new data
Line 1
Line 2
Line 3
```

In [18]:
```
# Function to Write into a file
def writeintoFile(filePath,filedata):
    with open(filePath,'a') as f:
        for line in filedata:
            f.write(line)
        print('Data Has been added')
    return
filePath = 'DataFiles/data.txt'
writeintoFile(filePath,'\n Updated data')
```

```
Data Has been added
```

In [23]:
```
#Function to Modify a file

def modifyFile(filePath,filedata):
    with open(filePath,'a') as f:
        for line in filedata:
            f.seek(0)
        f.write('Android \n' )
        print('Data Modified')


modifyFile(filePath,filedata)

```

```
Data Modified
```

In [15]:
```
#Function to find Character Count in a file
fname = input("Enter the name of the file:")

def charCount(filePath,fname):
    filePath = open('DataFiles/data.txt', 'r')
    characters = 0
    lines=0
    for line in filePath:
        lines = lines + 1
        characters = characters + len(line)
    print(characters)

charCount(filePath,fname)
```

```
Enter the name of the file:data
80
```

In [32]:
```
#Function to find line count in a file:
fname = input("Enter the name of the file:")
def lineCount(filePath,fname):
    filePath = open('DataFiles/data.txt', 'r')
    lines=0
    for line in filePath:
        lines = lines + 1
    print(lines)

lineCount(filePath,fname)
```

```
Enter the name of the file:data
7
```

In [21]:
```
#Function to find word count in a file:

fname = input("Enter the name of the file:")
def wordCount(filePath,fname):
    filePath = open('DataFiles/data.txt', 'r')
    lines=0
    words=0
    for line in filePath:
        wordslist=line.split()
        words = words + len(wordslist)
        lines = lines + 1
    print(words)

wordCount(filePath,fname)
```

```
Enter the name of the file:data
17
```

In [48]:
```
#Function to find unique word count in a file:
fname=input("Enter the file name : ")
def uniqueCount(filePath,fname):
    count = {}
    for w in open('DataFiles/data.txt').read().split():
        if w in count:
            count[w] += 1
        else:
            count[w] = 1
    for word, times in count.items():
        print("%s was found %d times" % (word, times))

uniqueCount(filePath,fname)
```

```
Enter the file name : data
new was found 1 times
data was found 1 times
Line was found 2 times
1 was found 1 times
Lines was found 1 times
2 was found 1 times
Lines3 was found 1 times
no was found 1 times
4 was found 1 times
Updated was found 1 times
Data was found 1 times
Android was found 1 times
```

In [50]:
```
#Function to get file size

import os
fname = input('Enter the filename : ')
def fileSize(fname):
    file_path='DataFiles/data.txt'
    with open(file_path,'r') as f:
        f = os.path.getsize(file_path)
    print(f)
fileSize(fname)
```

```
Enter the filename : data
63
```

In [43]:
```
#Command to print the file size

os.path.getsize('DataFiles/data.txt')
```

Out[43]:
```
63
```

In [ ]:
```

```