

```
In [4]: 1 # Read a File - File should Exist in some part of the sotorage (Read Mode)
2
3 # Write to a File - Existing( append mode) or New File(Write mode)
4 def readFile(filePath):
5     with open(filePath, 'r') as f:
6         filedata = f.read()
7         lines=filedata.split('\n')
8     return lines
9
10 filePath = 'DataFiles/data.txt'
11 print(readFile(filePath))
```

['Line1', 'Line2']

```
In [27]: 1 def readFile(filepath):
2     with open(filepath, 'r') as f: # Reference to the file object
3         filedata=f.read()
4     return filedata
5 filepath = 'Data Files/data.txt'
6 print(readFile(filepath))
```

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```
In [29]: 1 # Function to count number of lines in a file
2
3 def countLinesFile(filepath):
4     count=len(readFile(filepath))
5     return count
6 countLinesFile(filepath)
```

Out[29]: 34

```
In [30]: 1 import re
2 def wordcount(filePath):
3     pattern='[, \n]'
4     #filepath='Data Files\data.txt'
5     filedata =readFile(filePath)
6     count=len(re.split(pattern,filedata))
7     return count
8 wordcount(filePath)
```

Out[30]: 2

```
In [31]: 1 def charcount(filepath):
2     count=len(readFile(filepath))
3     return count
4 charcount(filepath)
```

Out[31]: 34

```

In [24]: 1 # Function to fet unique elements in a List
2 # [1,2,3,3,2,1]----->[1,2,3]
3 # Create empty unique List[]
4 def uniqueData(li):
5     # create an empty unique list
6     unique=[]
7     # for every element in the main list,
8     # Checck if it exists in the unique list
9     # If it does not exist,add it to unique list
10    # else if it already exists ,move on to the main list and add it to
11
12    for element in li:
13        if element not in unique:
14            unique.append(element)
15    return unique
16 li=[1,2,3,3,2,1]
17 uniqueData(li)
18

```

Out[24]: [1, 2, 3]

```

In [25]: 1 # Function to find the unique words of the data in a file
2 def Unique(filePath):
3     unique=[]
4     with open(filePath, 'r') as f:
5         filedata=f.read()
6         for i in wordcount:
7             if i not in unique:
8                 unique.append(i)
9         print(unique)
10
11 filePath = 'Data Files/data.txt'
12 Unique(filePath)

```

['n', 'a', 'm', 'e', 'l', '9', '8', '5', '4', '2', '3', '@', 'g', 'i', 'l',
'.', 'c', 'o']

```

In [ ]: 1 # Function to find the unique words of the data in a file
2 def Unique(filePath):
3     unique=[]
4     with open(filePath, 'r') as f:
5         filedata=f.read()
6         for i in filedata:
7             if i not in unique:
8                 unique.append(i)
9         print(unique)
10
11 filePath = 'Data Files/data.txt'
12 Unique(filePath)

```