Experiment No.04

EXECUTE THIS ONE FIRST!

In [29]:

AIM:- Write a python program that counts the lines and characters in a file (similar in spirit to part of what wc does on Unix). With your text editor, code a Python module called mymod.py that exports three top-level names:

- a) A countLines(name) function that reads an input file and counts the number of lines in it (hint: file.readlines does most of the work for you, and len does the rest, though you could count with for and file iterators to support massive files too).
- b) A countChars(name) function that reads an input file and counts the number of characters in it (hint: file.read returns a single string, which may be used in similar ways).
- c) A test(name) function that calls both counting functions with a given input filename. Such a filename generally might be passed in, hardcoded, input with the input built-in function.

```
import os
          import itertools
          # Constants for the exercises:
          WORKING DIR = os.getcwd()
          DATA_DIR = os.path.join(os.path.dirname(WORKING_DIR), 'data')
          in file = os.path.join(DATA DIR, 'abc.txt')
          def Count names1(in file):
In [30]:
              with open(in file, "r") as f:
                   d = dict()
                   for line in f:
                       line = line.strip()
                       line = line.lower()
                       words = line.split(" ")
                   for w in words:
                       if w in d:
                           d[w] = d[w] + 1
                       else:
                           d[w] = 1
              for key in list(d.keys()):
                   print(key, ":", d[key])
          Count_names1(in_file)
```

interpreter : 1

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In [31]: def Count_Line(in_file):
    count=0
    with open(in_file, 'r') as f:
        for l1 in f:
            l1=l1.split()
            count= count+ 1
        print('Number of lines',count)
        Count_Line(in_file)
```

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Number of lines 12
Number of characters in file = 264
```

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In [ ]:
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