**Tutorial 10**

**ECSE103L**

Ques 1. Read a file analysis for following tasks:

1. Find total number of words in the file.
2. Find number of sentences in the file.
3. Find frequency of each letter in the file (exclude special character, digits)
4. Find highest used letter in the file.
5. Find highest used vowel and consonant.

Make a summary of following findings and store in a new file named as <givenfile>\_summary.txt

**Python.txt**

Python is a multi-paradigm programming language. Object-oriented programming and structured programming are fully supported, and many of its features support functional programming and aspect-oriented programming (including by metaprogramming[43] and metaobjects (magic methods)).[44] Many other paradigms are supported via extensions, including design by contract[45][46] and logic programming.[47]

Python uses dynamic typing, and a combination of reference counting and a cycle-detecting garbage collector for memory management. It also features dynamic name resolution (late binding), which binds method and variable names during program execution.

Python's design offers some support for functional programming in the Lisp tradition. It has filter(), map(), and reduce() functions; list comprehensions, dictionaries, and sets; and generator expressions.[48] The standard library has two modules (itertools and functools) that implement functional tools borrowed from Haskell and Standard ML.[49]

The language's core philosophy is summarized in the document The Zen of Python (PEP 20), which includes aphorisms such as:[50]

Beautiful is better than ugly

Explicit is better than implicit

Simple is better than complex

Complex is better than complicated

Readability counts