DATA ANALYTICS

**What is Data Analytics?**

Data analytics is the science of analyzing raw data to find trends and answer questions.

**Python:**

Python is both compiled and interpreted, object-oriented, high-level programming language with dynamic semantics.

**Features of python**

* Object oriented
* Dynamically typed
* GUI programming support
* Extensible
* Large Standard library
* Free and open source
* Cross platform language
* Interpreted language
* Expressive language
* Easy to learn and use

Some Problems :

1. A = “OOTD.YOLO.ASAP.BRB.GTG.OTW”

Write a program to separate the strings into coma(,)

1. To sort string alphabetically
2. To remove a given character from string
3. Z= “F.R.I.E.N.D.S” remove dots
4. To check number of occurrence
5. Take a input and reverse it
6. To check if a string contains only digits
7. To check it is palindrome
8. To find vowels
9. To check if every word in string begins with capital letter

NumPy:

Numpy is the short form of numerical python. In 2005, Travis Oliphant created Numpy package. It is a package that defines a multi-dimensional array object and associates fast math functions that operate on it. It also has functions for working in domain of linear Algebra, Fourier Transformation and Matrices. In simple words, it is the fundamental package of scientific computing in python.