## Day1\_Programming Basics

Modules We are going to learn

- 1. Python Programming from the Data Science Perspective
- 2. Math and Statistics from the Data Science Perspective
- 3. Machine Learning
- 4. Deep Learning
- 5. Live Project Using Machine Learning and Deep Learning

**Python Programming** 

1. What is a Program

Logic development

A set of instructions along with the data(considered as input) has to processed to give the information(output)

It is used that perform a task or a series of tasks

Add 14,13 instruction

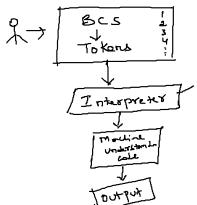
- Data are the raw facts i.e., they don't have any meaning until and unless they are processed

- 2. How we develop the programs
- By using a programming language we develop the programs.
- Programming language is made up of the Basic Character Set --> {A-Z,a-z,0-9,%\$#%..}

- In short a program is used for converting the data into information performing an IPO cycle

- The Basic Character Set characters are bundled up as Tokens or the components that follow the program grammar or syntax

3. Python is a High Level Programming language since it is made up of the **Basic Character Set** 



Install Python from https://www.python.org/

Install Anaconda from https://www.anaconda.com/products/individual

**Tokens or components of Python Programming** 

We know that the tokens are made up of Basic Character Set: {A-Z,a-z,0-9,%\$#%..}

- 1. Non Executable Tokens: 1. The components which are non-executable i.e., they will not contribute towards the output
  - 2. The comments in programming make up the Non Executable Tokens
  - 3. In python we use # symbol followed by a line of comments

Syntax: #Line-of-Comment

Ex: #Program for adding two numbers

4. We can have the comments made anywhere in the program

#Program for adding two numbers a = 10 #a is given a value 10

b = 5 #b is given a value 5 a+b #a,b are added

#output

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2. Executable Tokens

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