Python Day 2: వంశీ భవాని

Link to full playlist in Telugu:
https://youtube.com/playlist?list=PLNgoFk5SYUglQOaXSY8IAlPXmK6tQBHaw

Note: Please watch the video before reading the notes, because you will understand the concepts clearly when they are explained with examples in a native language.

Installation

1) Visit https://www.python.org/downloads/
2) Click on download
3) An exe file will be downloaded
4) Open it.
5) Click the add to Path checkbox
6) Install

Testing Installation

1) Open CMD
2) Type 'python' and press enter.
3) If there is no error, you are good to go.

Online Compilers/Interpreters

1) Google search for online python interpreters
2) Choose any platform to start coding

Variables

1) Data is crucial part of every program, because data is something that is both input & output for a program.

2) Many times, it is required to store this data in the program temporarily. For this purpose, we create variables.
3) Variables are just containers to store data & variable names are just labels to those containers.
4) There are certain rules to name a variable -
   a) Starts with underscore(_) and letters only. (Letters include a,b,c,...z and A,B,C,...Z)
   b) Contains only letters, numbers and underscore
5) We can store data in any variable using equals sign (=)

DataTypes

1) All data elements need containers i.e. variables to be stored but the type of those containers can be very different due to the kind of data that is being stored.
2) Following are the types of data based on various properties -
   a) Numeric
      i) Integer: To store integers Eg: 25,-6,64
      ii) Float: To store numbers with decimal Eg: 3.14,9.7
      iii) Complex: To store numbers with real and imaginary part Eg: 4+3j
   b) Boolean: To store result of expressions with results in either True or False
   c) Sequential
      i) Strings
      ii) Tuples
      iii) Lists
   d) Sets
   e) Dictionaries
3) We will discuss Sequential, Sets, Dictionaries in further days to come. Stay tuned...

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Thanks & Regards

Vamsi Bhavani