

Python Training.....

-- Jeetendra Bhattad



# Agenda

- String
- Data Structures
  - List
  - Tuple
  - Set
  - Dictionary



# String

- Its a sequence of characters
- Single Quotes & Double Quotes are treated similar
- Triple Quotes : doc-string, multiline comments
- Strings are immutable
- Representation & Slicing
- Methods:
  - count
  - index
  - find
  - join
  - Isalnum, isalpha, isdigit, islower, isspace, isupper
  - Istrip, rstrip, replace, partition, split, rsplit
  - endswith, startswith



#### List

- Ordered collections of heterogenous objects
- Representation is similar to String
- Mutable, can grow and shrink whenever required
- Methods:
  - count
  - append
  - extend
  - index
  - insert, pop, remove, reverse, sort
  - \_\_add\_\_, \_\_contains\_\_, \_\_eq\_\_, \_\_ge\_\_, \_\_sizeof\_\_ .....



### Tuple

- Ordered collections of heterogenous objects
- Representation is similar to String, List
- Immutable
- Methods:
  - count
  - index
  - mul\_\_, \_\_add\_\_, \_\_contains\_\_, \_\_eq\_\_,ge\_\_, \_\_sizeof\_\_ .....



#### Set

- Ordered collections of heterogenous unique objects
- Representation is similar to String, List but cannot be sliced or accessed using index
- Mutable
- Methods :
  - add
  - pop
  - clear
  - сору
  - discard v/s remove (raise KeyError)
  - difference, intersection, union .....



## Dictionary

- Unordered collection of key-value pairs
- Representation is similar to String, List but cannot be sliced or accessed using index.
- Mutable
- Methods :
  - copy
  - fromkeys
  - has\_key
  - items
  - keys, values
  - iteritems, iterkeys, itervalues
  - pop, popitem
  - viewitems, viewkeys, viewvalues



# Slicing

Slicing: extracting specific set of data from the container.

Lists, Strings & Tuple support Slicing

Reverse Indexing

Write a program to accept string/list from user and print it in reverse order



### To be Studied & Tried

- bytearray
- xrange
- deque
- defaultdict