**07 -12-2018**

1. Cli=REPL
2. <https://www.python.org/> is official website
3. Open python interactive prompt
4. Type(variablename) tells data type
5. Dir(name) could be used to get list of string functions
6. Python 3.4.2 (v3.4.2:ab2c023a9432, Oct 6 2014, 22:15:05) [MSC v.1600 32 bit (Intel)] on win32
7. Type "help", "copyright", "credits" or "license" for more information.
8. >>> 1/2
9. 0.5
10. >>> name="peter"
11. >>> print(name)
12. peter
13. >>> city='Mumbai'
14. >>> type(name)
15. <class 'str'>
16. >>> type(name)
17. <class 'str'>
18. >>> n=4.34
19. >>> type(n)
20. <class 'float'>
21. >>> name
22. 'peter'
23. >>> name.upper()
24. 'PETER'
25. >>> name.title()
26. 'Peter'
27. >>> name.title().swapcase()
28. 'pETER'
29. >>> name.center(80,'-')
30. '-------------------------------------peter--------------------------------------'
31. >>> dir(name)
32. ['\_\_add\_\_', '\_\_class\_\_', '\_\_contains\_\_', '\_\_delattr\_\_', '\_\_dir\_\_', '\_\_doc\_\_', '\_\_eq\_\_', '\_\_format\_\_', '\_\_ge\_\_', '\_\_getattribute\_\_', '\_\_getitem\_\_', '\_\_getnewargs\_\_', '\_\_gt\_\_', '\_\_hash\_\_', '\_\_init\_\_', '\_\_iter\_\_', '\_\_le\_\_', '\_\_len\_\_', '\_\_lt\_\_', '\_\_mod\_\_', '\_\_mul\_\_', '\_\_ne\_\_', '\_\_new\_\_', '\_\_reduce\_\_', '\_\_reduce\_ex\_\_', '\_\_repr\_\_', '\_\_rmod\_\_', '\_\_rmul\_\_', '\_\_setattr\_\_', '\_\_sizeof\_\_', '\_\_str\_\_', '\_\_subclasshook\_\_', 'capitalize', 'casefold', 'center', 'count', 'encode', 'endswith', 'expandtabs', 'find', 'format', 'format\_map', 'index', 'isalnum', 'isalpha', 'isdecimal', 'isdigit', 'isidentifier', 'islower', 'isnumeric', 'isprintable', 'isspace', 'istitle', 'isupper', 'join', 'ljust', 'lower', 'lstrip', 'maketrans', 'partition', 'replace', 'rfind', 'rindex', 'rjust', 'rpartition', 'rsplit', 'rstrip', 'split', 'splitlines', 'startswith', 'strip', 'swapcase', 'title', 'translate', 'upper', 'zfill']
33. >>> name.\_add\_city()
34. Traceback (most recent call last):
35. File "<stdin>", line 1, in <module>
36. AttributeError: 'str' object has no attribute '\_add\_city'
37. >>> name='ravi'
38. >>> name
39. 'ravi'
40. >>> name.\_add\_city()
41. Traceback (most recent call last):
42. File "<stdin>", line 1, in <module>
43. AttributeError: 'str' object has no attribute '\_add\_city'
44. >>> name.\_add\_(city)
45. Traceback (most recent call last):
46. File "<stdin>", line 1, in <module>
47. AttributeError: 'str' object has no attribute '\_add\_'

* Help(str)-get all methods inside str class
* >>> dir(\_\_builtins\_\_) –Get builtin function
* Import math will import all math functions and objects
* >>> callable(math.pi)
* False
* >>> callable(math.sin())
* Traceback (most recent call last):
* File "<stdin>", line 1, in <module>
* TypeError: sin() takes exactly one argument (0 given)
* >>> callable(math.sin)
* True
* Python block indendation is done by 4 spaces
* Data type:

Numeric(int,float,complex)

Strings (Unicode,bytes)

Boolean

NonType

Complex:

List aka array

Tuple readonly list

Set(hash list)

Dict(hashmap)

Sequences obkjevt/type{str,list,tuple}

Operations:

1. Indexing
2. Slicing
3. Iteration

iPython-> Interactive python

ipython notebook

Jupiter Notebook:

Membership test operator(in ,not in)

Lambda operator(using lambda function)

Final code on:

<https://github.com/ravijaya>

<https://github.com/ravijaya/python3_materials>

Django:

1. Create Django project
2. Run following command in terminal:

python manage.py migrate

python manage.py createsuperuser

python manage.py runserver

1. Type <http://127.0.0.1:8000/admin/> in Browser and login using credential you just created.
2. python manage.py startapp greet to create an app(Make the changes)
3. python manage.py makemigrations greet

each time we add some module we have to do python manage.py migrate

1. python manage.py runserver localhost:8989 if server is using the port already