**Python training Notes:**

**Course Name:** **SCRIPT 307: Basic Python**

**Day 3: 19 Feb 2019**

**Post the session from my side do self-study and hands on assignments form below learning course link:**

<https://knowledgecenter.persistent.co.in/ViewCourse/pmoc>

***Please visit the following URL to view the collaborative learning group***

<https://persistentuniversity.persistent.co.in/CollaborativeLearningGroup/view.aspx?SkillId=10329>

**Topics Covered:**

Functions, File handling

Modules/ Packages

Exception Handling

Misc Modules

**\*\*\*\*\*To Do for Day3 :**

Nugget 1 : Introduction to Python & Python Fundamentals

Nugget 2 : Python Basics

Nugget 3 : Nugget 3 : Python Control Structures

Nugget 4 : Functions & Modules

Nugget 5 : I/O & Exception handling

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1. Complete reading these Nuggets from <https://knowledgecenter.persistent.co.in/ViewCourse/pmoc>

2. Please execute all codes in these Nuggets

3. Start solving assignment at the end of Nuggets

**Try Below Codes:**

**4\_Modules**

**5\_Execption Handling**

**8\_Various std Python libraries**

**Errors**

**Python Errors:**

1. **SyntaxError :**

It is reported even before any line run time execution – o/p

e.g

print "Hello World!!!!" #print is a pre defined statement in Python2

Print "Welcome to Python Session!!!!" #SyntaxError: invalid syntax

print "END!!!!!"

1. **IndentationError**

e.g.

if num1 ==100:

print "In if block code...."

**RunTime errros:**

1. **NameError**

e.g.

print x1 # NameError: name 'x1' is not defined

e.g 2)

disply() #Name error - NameError: name 'disply' is not defined

1. **TypeError**

e.g. 1)

snum = "100"

num1 =999

snum+num1 # TypeError: cannot concatenate 'str' and 'int' objects

e.g. 2)

s1 ={1,2,3,3,3,3}

print "Set elemnt = ", s1[0] #TypeError: 'set' object does not support indexing

e.g. 3)

s2 = set([3,4,5,6, [99,88]]) #TypeError: unhashable type: 'list'

e.g 4)

def display(): #function defination

print "in display function...."

display(100) #TypeError: display() takes no arguments (1 given)

1. **ValueError**

E.g.

print "int return value = ", **int("abc")**

#ValueError: invalid literal for int() with base 10: 'abc'

1. **IndexError**

IndexError: list index out of range

e.g.

list1 = [1,2,3,4,5]

print "Element at index 10 = ", list1[10]

# IndexError: list index out of range

1. **KeyError**

colors = {'red':255 , 'blue':100, 'green':155, 'red':200}

print colors[0**] #KeyError: 0**

1. **IOError**

fh = open("data.txt", "r") #IOError: [Errno 2] No such file or directory: 'data.txt'

**Assignments to do:**

1. **Read Country.txt file**

**Langauge, Country, Continenet**

Store the Country data to get below output-

**Write a function for this**, store it in a **module** and **access this in your final application.**

>>>

{'Arabic': {'Bahrain': ['Manama'], 'Yemen': ["San'a"]},

'Chinese': {'China': ['Beijing']},

'English': {'Canada': ['Ottawa'],

'Fiji': ['Suva'],

'Ireland': ['Dublin'],

'United Kingdom': ['London'],

'United States': ['Washington DC']},

'Franch': {'Cameroon': ['Yaounde'],

'Djibouti': ['Djibouti'],

'Equatorial Guinea': ['Malabo'],

'France': ['Paris']},

'German': {'Germany': ['Berlin']},

'Greek': {'Greece': ['Athens']},

'Hungerian': {'Hungary': ['Budapest']},

'Indian': {'India': ['New Delhi']},

'Italian': {'Italy': ['Rome']},

'Japanese': {'Japan': ['Tokio']},

'Portuguese': {'Brazil': ['Brasilia']},

'Spanish': {'Argentina': ['Buenos Aires'],

'Honduras': ['Tegucigalpa'],

'Venezuela': ['Caracas']},

'Vietnamese': {'Vietnam': ['Hanoi']}}

**Assignments\Day3 --🡪**

**Q1.py**

**Q2.py**