**Python training Notes:**

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

**This is Part 1 of the whole training in the duration 17 to 31 July**

**This will be followed with next Part 2 session for Intermediate Python topics in the month of August.**

**Day 1: 17 Jul 2018 (2 Hrs Session)**

**Expectation Setting ASL (Assisted Self-Learning) 2Hrs session daily**

**And then do self-study and hands on assignments from below learning course link and also the assignments given below here in this document:**

<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=9144>

Notes:

Python Interpreted lang

Open source – Python installation Windows open source/ Unix

Interpreter of Python

Top- Bottom way---line by lie execution – Interpreted lang

No intermediate obj file

Source File (First.py) ---🡪>python First.py ---🡪 o/p

No Data type decalartion required as-

int x =100

char c = ‘A’

Executing Python Script:

1. By using Python software on Windows, use Python command prompt

**C:> python**

**>>>print ‘Hell0’**

**>>>Hello**

**>>>3+5**

**>>>8**

1. **File creation for Python program,**

**First.py**

**Text editor**

**C:>Demos>python Hello.py**

**Python.exe in c:\python**

**Path env variable**

**C:>set path = %path%;c:\python27**

**C:>demos>python Hello.py**

**3.IDLE used : explore IDLE editor**

**if(){**

**}**

**elif(){**

**}**

else

{

}

But in python indentation followed instead of { }:

if z==3.56:

print ’in if’

X+y

else:

Print ‘in else block’

print ‘Out of else block’

X =’Hello’s’

**Errors**

SyntaxError

Indentation Error

TypeError

NameError

**\*\*\*\*\*To Do for Day1:**

Nugget 1 : Introduction to Python & Python Fundamentals

Nugget 2 : Python Basics

522

1. Complete reading these 2 Nuggets from <https://knowledgecenter.persistent.co.in/ViewCourse/pmoc>

2. Please execute all codes in these 2 Nuggets

3. Start solving assignment at the end of Nuggets

**Try Below Codes:**

**2\_DataType1.py**

x=100

z=3.45 #no data type

y='Hello'

#print "Started"

#y=y+1 run time error no concatenation of int to str object

if z==3.45 or y=='Hello':

x =x+1

y=y+' World' #+ is concatenation operator

else:

print 'In else block'

print "x = ",x

print 'y = \t value',y

print "-------------------------------------------------"

print """a'b"c""" """xyz'm"a"""

print int(z)

print float(x)

print "Kinght's" "abc'z"

print 'Kinght"s' 'abc"z'

#try except

#print x+"AAAA" #not poosible GIVES U run time error TypeError

#raw string

print 'c\temp\new.txt' #\t and \n escape charaters are resolved

print r'c\temp\new.txt' #raw string it considers this as raw string as it is

str1 = r'c\temp\new.txt'

print "str1 = ", str

"""Doc string This is Data types in

Python

Interesting comment

"""

**4\_user\_input.py**

#keyborad input

x = raw\_input("Please enter ur name :") #input is "" string str = "55" num = int(str)

print "Hello ", x

print "Welcome to Python"

print 5\*x

print "-----------------------------------------------------"

y = input("Enter your name") #input is not "" string

print "Hello", y # error, so take input as "ABC" it will work use input for numeric input

**Assignments to do:**

1. Accept 2 numbers from user and print addition , subtraction.

Use raw\_input() function for this

1. Check whether entered string is lower case or uppercase and print the message respectively.
2. Validate the entered string for a valid password “psl” or “PSL”

Save the solutions in a folder: **Assignments\Day1**

Script names should be Q1.py, Q2.py, Q3.py

**Assignments\Day1 --🡪**

**Q1.py**

**Q2.py**

**Q3.py**