**Python training Notes:**

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

**Day 1: 11 Sep 2017**

**Expectation Setting : ASL (Assisted Self-Learning) 4Hrs session daily**

**And then do self-study and hands on assignments form below learning course link:**

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

**Micro Learning Online link :** <https://persistentuniversity.persistent.co.in/microlearning/Course/837>

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

<https://persistentuniversity.persistent.co.in/CollaborativeLearningGroup/View.aspx?SkillID=8451>

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

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**

**If(){**

**}**

**Elif(){**

**}**

Else

{

}

But in python:

If z==3.56:

Print’’

X+y

Else:

Print ‘in else block’

Print ‘Out of else block’

X =’Hello’s’

**Reserved Keywords**

elif except from in is lambda pass raise

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

Nugget 1 : Introduction to Python & Python Fundamentals

Nugget 2 : Python Basics

Nugget 3 : Nugget 3 : Python Control Structures

522

1. Complete reading these 3 Nuggets

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

"""

str ='ABCDE' #012 index

print str[0] #A

print str[0:3] #ABC

print str[2:] #CDE

print str[:4] #ABCD

s ='1234765675565567547646464'

print s[0]

**3\_DataType2\_String.py**

s = '012345' #every character is stored at index

print "oth index charater = ",s[0] #09

print "String from 1 to 4 index = ",s[1:4] #range 1:4 123

print "String after index 2 =",s[2:] #2345

print "String upto 4 index = ",s[:4] #0123

str ="Welcome to PSL. PSL Pune"

count = str.count('PSL',0,len(str))

print 'Cunt of PSL = ',count

print "one, %d, two"%2 # one, 2, two

print '%s two %s'%(1,'three')

print 'Hello\n'\*3 #printed thrice

print 'h' in "hello" #return True

"""

'AB"C' possible

"AB'C" error

"""A'B"C"""

DocString

"""

Type

“””

s=’ABC’

revStr = s[::-1] #reversed string

**Error**

TypeError

NameError

SyntaxError

**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 a string, check whether it is palindrome

Eg. “madam”

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