



## **Report on “One week MTA Certification Training Program on ‘Data Science with Python’”**

<b>Event Type</b>	:	Workshop
<b>Date(s)</b>	:	8 <sup>th</sup> to 13 <sup>th</sup> December, 2020
<b>Resource Person(s)</b>	:	Mr. Naga Kumar from <b>Devspark</b> ,
<b>Name of Coordinators</b>	:	Dr. S. Naganjaneyulu, Counselor CSI LBRCE Student Branch, LBRCE.  Mr. M. Sitaram, Sr. Asst.Professor, Dept. of CSE.  Mr. P. Vamsi Naidu, Asst.Professor, Dept. of CSE
<b>Target Audience</b>	:	B.Tech. V Semester Students
<b>Total no of Participants:</b>		55
<b>Students Certified</b>	:	42
<b>Objective of the Event</b>	:	

This program is designed to train and develop III Year Students of CSE Department by equipping them to be able to use Python Programming for solving Data Science problems. The main objective of this training program is to provide hands-on familiarity with Python Programming in an on-going process of Data Science.

### **Outcome of the Event :**

On completion of this workshop Student can able to:

- Express his/her understandings of how Expressions are evaluated and how Errors are handled in python
- Apply Numpy and Matplotlib packages for solving the Real world Data Science problems.
- Apply python language constructs for solving Machine Learning problems.

### **Description of the Event:**

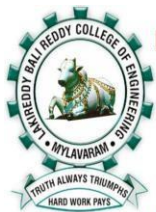
Python for Data Science is a must learn for students who want to start their career in the Data Analytics domain. With the growth in the IT industry, there is a booming demand for skilled Data Scientists and Python has evolved as the most preferred programming language. Through this workshop, students will learn the basics, how to analyze data and then create some beautiful visualizations using Python. Students are getting familiar with python libraries like NumPy, Matplotlib, Scikit-learn, and Pandas for solving the real world problems.



### Feedback / Suggestions:

- I thoroughly enjoyed the workshop and learnt the concepts of python.
- Even though I am new to Python Programming and Data Science, with this workshop I got the confidence that I could able to analyze and solve some of Data Science problems.
- Really worth attending this workshop. Thanks to the coordinators of this workshop for organizing this.

### Screenshots of Training :



Lakireddy Bali Reddy College of Engineering (Autonomous)



Computer Society of India

LBRCE Student Branch

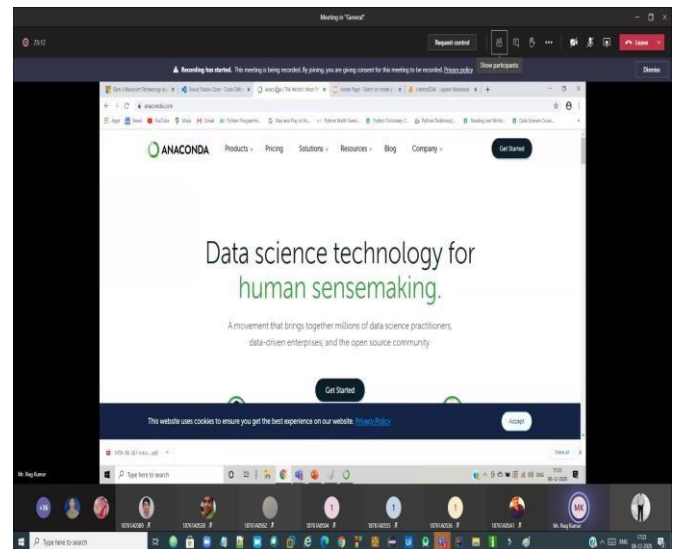
Microsoft Technology Associate (MTA) Certification Training  
 on  
 "Data Science using Python"



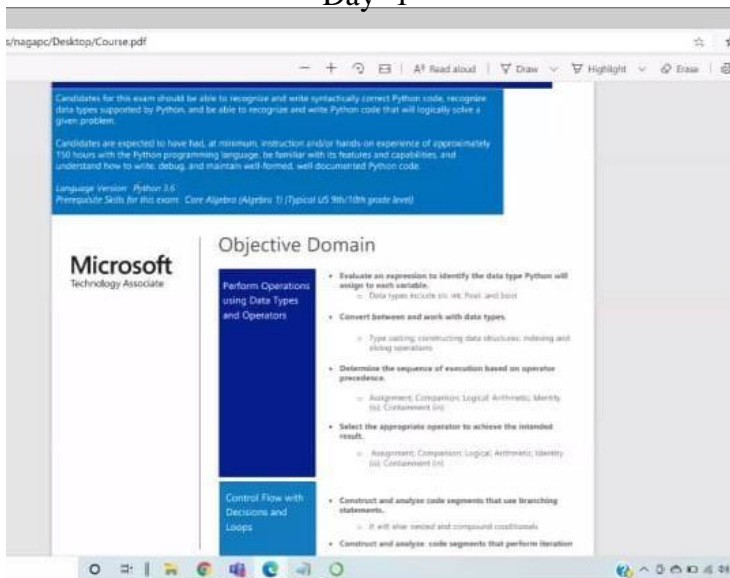
By  
 Mr. Nag Kumar,  
 Devspark, Hyd.

Department of Computer Science and Engineering

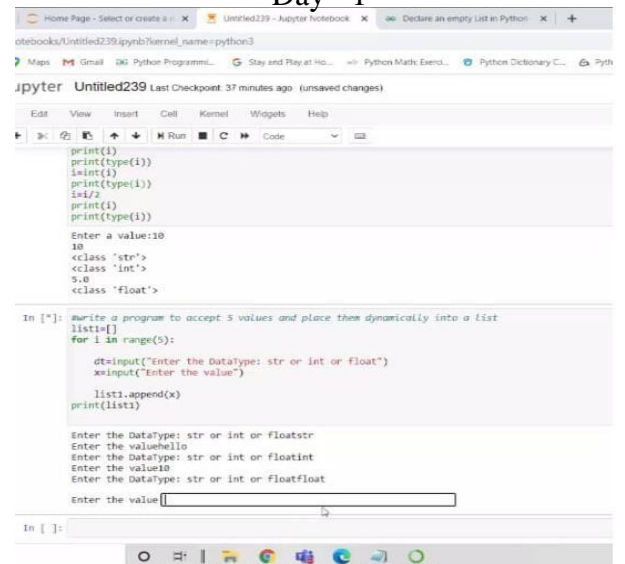
Day - 1



Day - 1



Day - 2



Day - 2



```
else:  
    print("number is not divisible by 2 and 3")  
Enter a number:6  
Number is divisible by 2 and 3  
  
In [5]: # program to understand identity and membership operators  
x=[10,20,30,40,50]  
for i in x:  
    if(i is 25):  
        print("Found")  
    else:  
        print("Not Found")  
  
Not Found  
Not Found  
Not Found  
Not Found  
Not Found  
  
OSError: SyntaxWarning: "is" with a literal. Did you mean "=="?  
OSError: SyntaxWarning: "is" with a literal. Did you mean "=="?  
python-input-5-366c3b0eb7914: SyntaxWarning: "is" with a literal. Did you mean "=="?  
if(i is 25):  
  
In [ ]:
```

Topic	Key Concepts
Perform Input and Output Operations	Construct and analyze code segments that perform file input and output operations. Identify, detect, and fix code segments that perform console input and output operations.
Document and Structure Code	Document code segments using comments and documentation strings. Construct and analyze code segments that include function definitions.
Perform Troubleshooting	Analyze, detect, and fix code segments that have errors.

Day - 3

The following table lists all operators from highest precedence to lowest.

Operator	Description
**	Exponentiation (raise to the power)
~ + -	Complement, unary plus and minus (method names for the last two are +@ and -@)
*/%//	Multiply, divide, modulo and floor division
+ -	Addition and subtraction
>> <<	Right and left bitwise shift
&	Bitwise AND
^	Bitwise exclusive 'OR'
<< >>=	Comparison operators
<= >= < >	Equality operators
= %= /+= /-= += -=	Assignment operators
is is not	Identity operators
in not in	Membership operators
not or and	Logical operators

Operator precedence affects how an expression is evaluated.  
For example,  $x = 7 * 3 + 2$ ; here,  $x$  is assigned 13, not 20 because operator  $*$  has higher precedence of multiplication  $*$  and then adds 2.

Day - 3

```
<python-input-12-0e0e895d4990> In [5]:  
1 list2=[]  
2 for i in range(1000):  
3     y=random.randrange(10,5,85.5)  
4     list2.append(y)  
5     print(list2)  
  
-Lanaconda3\lib\random.py in randrange(self, start, stop, step, _int)  
210     start = _int(start)  
211     if start is None:  
--> 212         raise ValueError("non-integer arg 1 for randrange()")  
213     if stop is None:  
214         if list2 == []:  
  
ValueError: non-integer arg 1 for randrange()  
  
In [5]: list3=[10,20,30,40,50]  
print(random.choice(list3))  
40  
  
In [ ]:  
  
In [ ]:
```

Day - 4

```
In [10]: list4=["apple","banana","mango","orange","grapes"]  
print(list4)  
print(len(list4))  
for i in range(len(list4)):  
    print(list4[i])  
    print(i)  
    print(list4[i])  
    print(i)  
  
apple  
banana  
mango  
orange  
grapes  
  
In [ ]:
```

Day - 4

```
In [10]: list4=["apple","banana","mango","orange","grapes"]  
print(list4)  
print(len(list4))  
for i in range(len(list4)):  
    print(list4[i])  
    print(i)  
    print(list4[i])  
    print(i)  
  
apple  
banana  
mango  
orange  
grapes  
  
In [ ]:
```

Day - 5

Day - 5