

13th April 2021

Previous Day

- Internet
- Protocol
- IP Address

Python Intro

Lecture Flow

Print

Topics and Explanation

- Python is basically a programming language that allows you to instruct a computer in a manner that humans can understand.
- Programming languages have to follow a certain set of rules called syntax so that it is computer readable.
- Since computers can only understand 0's and 1's, we will write our code in a file in python language which contains instructions for the computer. A program called the interpreter will convert line by line into 0's and 1's for the computer to understand.
- Python was invented in 1994 by Guido Van Rossum, bored of other languages. Tedious Syntax.
- Linux has been written using the C programming language.
- Machine Learning, Data Science
- Since python is easy to run, I need to write very little code for the same task and have a lot of 3rd party libraries/software. Python is like a swiss knife in Cs.

1. Print

It just displays the same message on the screen as what you have entered.

```
32 print("Hello World, ")
33 print("My name is Priyesh")
34
```

```
~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Hello World,
My name is Priyesh
~/RichBiodegradableLicenses$
```

\t : tab key

\n : enter key

```
32 print("Hello World")
33 print("\n")
34 print("\n")
35 print("\n")
36 print("\n")
37 print("\n")
38 print("My name is Priyesh")
```

```
~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Hello World
```

```
My name is Priyesh
```

```
32 print("Hello World")
33 print("My name is \t Priyesh")
```

```
Priyesh
~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Hello World
My name is Priyesh
~/RichBiodegradableLicenses$
```

```
33
40 print("Priyesh", end = " ")
41 print("Priyesh", end = " ")
42 print("Priyesh", end = " ")
43 print("Priyesh", end = " ")
44 print("Priyesh")
```

```
Priyesh
~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Priyesh Priyesh Priyesh Priyesh Priyesh
~/RichBiodegradableLicenses$
```

```
34
46 print("Priyesh "*5)
47
```

```
~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Priyesh Priyesh Priyesh Priyesh Priyesh
```

- Integer => Number
- string => text
- decimal => float
- boolean => (true or false)

x = 5

x = true

x = false

x = 7.8323749

x = "My name is Sankalp"

```

68     a = 10
69     b = 5
70
71     c = a+b
72     print(c+2)
73     print(c*12)
74     print("c+2")

```

```

17
180
c+2

```

```

90     age = input("Please enter your age: ")
91
92     # in order to take user input, use the input() command
93     # result of this command needs to be stored in a variable
94     # so that later on, it can be fetched for reuse
95
96     # input() or input("Message")
97     |
98     print("The age entered by the user is: ", age)
99
100    # Any data input from the user using input() will be text
    data by default.

```

```

~/RichBiodegradableLicenses$ python3 lecture07_notes.py
Please enter your age: 18
The age entered by the user is: 18
~/RichBiodegradableLicenses$ 

```

MCQs

Git does which of the following automatically first and asks you only in case of errors?

Attempted - 39
(69.64%)

EASY



<input checked="" type="checkbox"/> Merging	79.49%
<input type="checkbox"/> Cloning	5.13%
<input type="checkbox"/> Pulling	10.26%
<input type="checkbox"/> Pushing	7.69%

What is the data stored in variable x?

```
x = input("Enter your mobile number")
```

```
>>> Enter your mobile number: 9873164091
```

Attempted - 38 (67.86%)

EASY



<input checked="" type="checkbox"/> "9873164091"	42.11%
<input type="checkbox"/> 9873164091	57.89%
<input type="checkbox"/> mobile: 9873164091	

In python single quotes and double quotes are the same thing

Attempted - 41 (73.21%)

EASY



<input checked="" type="checkbox"/> True	85.37%
<input type="checkbox"/> False	14.63%

What is the output of :

```
print("My Name is \\n Priyesh")
```

Attempted - 40 (71.43%)

EASY



<input type="checkbox"/> "My Name is \\n Priyesh"	12.5%
<input checked="" type="checkbox"/> "My Name is \n Priyesh"	75%
<input type="checkbox"/> "My Name is" nextline: "Priyesh"	12.5%