Python

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Chapter 1

ONE

1.1 Introduction

Reference: edureka!

HI, it is a great time to learn python programming. Before we began, let's talk about our agenda for today. We will give you a guided way of becoming a python developer.

- 1. Comments
- 2. Variable
- 3. Operators
- 4. Data types
- 5. Loop
- 6. Libraries
- 7. File Handling and Functions
- 8. Web developing and Web Scraping

1.2 Comment

Python comment is oneline comment mode and this is written adding a before hash tag.

e.g. : #This is a python comment.

1.3 Variable

Let's continue this series on PYTHON.

Variables are a special container that stores value. In python, "Variable is Variable". So no need to specify primary stage declaration of type.

1.3.1 Value Assignment

```
Syntax: variable\_name = value
```

Equal sign (=) is used to assign values to the variable.

1.3.2 Value changing

```
First we assign 2 to the variable x and then assign 9 to the x. So, present value of x is 9. x = 2
```

x9

Now, x = 9.

If we want to access output of previous operation, use underscore (). This means output of previous operation.

```
e.g.: 10 + x
= 19
```

y = 2

 $_{-}+y$

=21

1.3.3 String Variable

String concatenation in Python is same as C++. Use + sign to concatenate.

Declaring string variable:

Syntax: variable_name='Name'

e.g. : platform = 'YouTube'

IN: platform[0]

OP: 'Y'

Normally in computer, counting always starts with 0.

IN: platform[1:4]

OP: ouT

That means, first one is starting index, second-one is before ending index.

Let's use len() function for outcome the length of the string variable.

IN: len(platform)

OP: 7

It returns an integer, size of platform.

Fourth tutorial over.

1.4 Loop

1.4.1 For Loop

Now we will talk about for loop.

We can write if inside a for. If we have if inside a for, then we have for inside a for.

```
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Execute Python Online (Python v2.7.13)

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```

List is a great kind of data type in Python. Here 'x' is a list variable. We will discuss about it later.

1.5 Functions

In python, user-defined functions are starts with "def" keyword.

```
1 def fun_name():
2 print("Kiron")
3 fun_name() #Calling the function.

Output: Kiron
```

1.5.1 Multiple return value

This is how we return multiple values from a python "def"

```
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Continuous Execute Python Online (Python v2.7.13)

Continuous Execute Python Online (Python v2.7.13)

1 def sum_sub(a, b):
2 return a+b, a-b, a*b

3
4 a = 2
5 b = 3
6 result1, result2, result3 = sum_sub(a, b)
7 print result1, result2, result3
```

Output: 5, -1, 6