




001: Introduction to Python

Learning Outcome:	Python, IDLE, print function, Mathematical Operators
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Definitions/Concepts		
Python	<ul style="list-style-type: none">It was developed by <i>Guido Von Rossum</i>.Rossum loved watching a comedy group by the name <i>Monty Python</i>, he named the language after that comedy group.It is one of most popular programming languages.	 <i>Guido Von Rossum</i>
IDE	<ul style="list-style-type: none">It stands for Integrated Development Environment.It is a platform/software to write code and run them to get the output.	
IDLE	<ul style="list-style-type: none">It stands for Integrated Development and Learning Environment.It is a python's text-based command window to write code and run them to get output.	

print() function
<ul style="list-style-type: none">It is used to display anything on the output screen.Whatever we want to display needs to be either in between single quotes or double quotes.



Double quotes “ ”	<pre>>>> print("Hello Python") Hello Python</pre>
Single quotes ‘ ’	<pre>>>> print('Hello Python') Hello Python</pre>
This doesn't happen in all other programming languages, this is a feature of python, that we can use either single or double quotes.	

Escape Character	
<ul style="list-style-type: none"> The backward slash \ along with a special character helps to do more things using the print function. 	
\n	<ul style="list-style-type: none"> Things written after \n are displayed in the next line. <pre>>>> print('I am learning to code in Python.\n I am loving it') I am learning to code in Python. I am loving it</pre>
\t	<ul style="list-style-type: none"> Things written after \t are displayed after some space. <pre>>>> print('I am learning to code in Python.\t-TopprCodr') I am learning to code in Python. -TopprCodr</pre>
\"	<ul style="list-style-type: none"> If we display double quotes in the output, we have to use backslash. <pre>>>> print("She said,\"I want to learn Python\"") She said,"I want to learn Python"</pre>
\'	<ul style="list-style-type: none"> If we use single quotes in the print function and want to display single quotes in the output too, we have to use backslash. <pre>>>> print('I like Rumi\'s poem') I like Rumi's poem</pre>

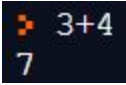
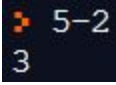
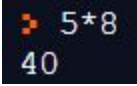
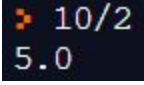
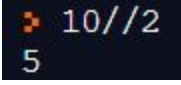



Another way of displaying single and double quotes.

```
>>> print('She said,"I want to learn Python"')
She said,"I want to learn Python"
>>> print("I like Rumi's poem")
I like Rumi's poem
```

- If we want to display double quotes in output we can use single quotes in the print statement and vice-versa.

Mathematical operators

+	<ul style="list-style-type: none"> • Plus: Adds two numbers 	
-	<ul style="list-style-type: none"> • Minus: Gives difference of two numbers. 	
*	<ul style="list-style-type: none"> • Asterix: Multiply two numbers 	
/	<ul style="list-style-type: none"> • Div: Gives exact result of division,(will include decimals) 	
//	<ul style="list-style-type: none"> • Floor Division: Gives quotient of division(will give integral value) 	
%	<ul style="list-style-type: none"> • Modulus Operator: Gives remainder of division. 	

FunFacts

Python is used by Wikipedia, Google (where Van Rossum used to work), Yahoo!, CERN and NASA, among many other organisations.