By – ADITYA JAIN // tokens

TOKEN

They are the smallest individual unit in a program.

PYTHON TOKENS –

- i. Keywords
- ii. Identifiers
- iii. Literals
- iv. Operators
- v. Punctuators

KEYWORDS

- i. They are some reserved words that has special meaning or purpose and must not be used as identifiers.
- ii. Ex if, else, elif, while, for, class, from, return, break, etc.

IDENTIFIERS

- i. They are the names given to variable, object, classes, functions, list, etc.
- ii. They can be the combination of letters and digits and underscores.
- iii. Also, digit can't be the first character.
- iv. CASE is also significant.
- v. Ex myfirstprogram, MyFirstProgram, my_first_program, _my_first_program_, etc.

LITERALS

- i. They are data item that have fixed value.
- ii. Python String Literals
 - i. String Literal
 - ii. Numeric Literal
 - iii. Boolean Literal
 - iv. Special Literal

STRING LITERAL

- i. They are the sequence of characters surrounded by quotes (single or double).
- ii. Ex 'Hello', "PYTHON", '3.7', etc.

NUMERIC LITERAL

- i. They are the numeric type.
- ii. Python Numeric Literals
 - i. Int (or long)
 - ii. float
 - iii. complex

BOOLEAN LITERAL

- i. They represent logical conditions.
- ii. Python Boolean Literals
 - i. True
 - ii. False

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SPECIAL LITERAL

- i. It represents something that has not yet been created.
- ii. Python Special Literal
 - i. None

OPERATORS

i. They perform their respective action when applied to a variable or to any other object of an expression.

ii. Python Operators –

i. UNARY OPERATORS

- i. They require one operand to operate upon.
- ii. Python Unary Operators -

i.	Unary Plus	(+)
ii.	Unary Minus	(-)
iii.	Bitwise Complement	(~)
iv.	Left Shift	(<<)
٧.	Right Shift	(>>)
vi.	Not/Complement	(not)

ii. BINARY OPERATORS

i. Arithmetic Operators

i.	Addition	(+)
ii.	Subtraction	(-)
iii.	Multiplication	(*)
iv.	Division (q)	(/)
V.	Division (r)	(%)
vi.	Division (floor)	(//)
vii.	Exponent	(**)

ii. Relational Operators

i.	Less than	(<)
ii.	Greater than	(>)
iii.	Less than or equals to	(<=)
iv.	Greater than or equals to	(>=)
٧.	Equals to	(==)
vi.	Not equals to	(!=)

iii. Assignment Operators

1.	Assign value	(=)
ii.	Assign sum	(+=)
iii.	Assign difference	(-=)
iv.	Assign product	(*=)
٧.	Assign quotient	(/=)
vi.	Assign remainder	(%=)
vii.	Assign floor division	(//=)

iv. Logical Operators

i.	Logical AND	(and)
ii.	Logical OR	(or)

v. Identity Operators

i.	Check, same?	(is)
ii.	Check, not same?	(is not)

vi. Bitwise Operators

	•	
i.	And	(&)
ii.	Or	()
iii.	XOR	(^)

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iii. TERNA	iv. Left Shift v. Right Shift ARY OPERATORS i. <on_true> if <condit< th=""><th>(<<) (>>) ion> else <on_false></on_false></th><th></th></condit<></on_true>	(<<) (>>) ion> else <on_false></on_false>	
PUNCTUATORS			
	organize sentence structure rs – ', ", #, (), [], { }, @, :		
ii. Tythorr diletato	· σ · , · π · (/) · [] · () · · · ·	ן נ [−] ן ניין	