

Review Of Python Basics

➤ Tokens:-

Tokens are the smallest unit of any programming language.

It is also known as lexical unit. Types of tokens are:-

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

i. Keywords:- They are those words which provides a special meaning to interpreter. There are reserved for specific functioning. These can not be used as an identifiers, variable name or any other purpose.

Available Keywords in Python are:-

False	class	finally	is	return
None	continue	for	lambda	try
True	def	from	nonlocal	while
And	del	global	not	with
as	elif	if	or	yield
assert	else	import	pass	

ii. Identifiers:-

- There are building blocks of a program and are used to give name to different parts/blocks of a program like – Variables, objects, classes, functions, etc.
- An Identifiers may be a combinations of latters and numbers.
- An identifiers must begins with an alphabetes or an underscore “ _ ”. Subsequences letters may be numbers.
- Python is case sensitive. Uppercase characters are distinct from lowercase chatacters.
- Length of an identifiers is unlimited.
- Keywords cannot be used as identifiers.
- Spaces and special symbols are not permitted in an identifers.

iii. Literals:-

- They are often called constant vales.
- Python permits followings types of literals:-
 - String literals
 - Numeric literals
 - Boolean literals
 - Special literals
 - Literals collections

iv. Operators:-

- An operator is a symbol that trigger some actions when applied to identifiers/operands.
- Therefore, an operator required operand to compute upon.

➤ **Data Types:-**

- Data types be of any type like characters, integers, real, strings.
- Anything enclosed in “ ” is considered as strings in python.
- Any whole values is an integer.
- Any values with fraction part is a real values.
- Python support following core data types:-
 1. Numbers
 2. Strings
 3. List
 4. Tuples
 5. Dictionary

➤ **Mutable and immutable types:-**

- **Mutable:-** Data types in which place changes are allowed, eg:- list, dictionary.
- **Immutable:-** Data types in which place changes are not allowed, eg:- strings, tuples.