**Day-06**

**25-02-2025**

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**Python Keywords:**

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-> Keywords are called as "Reserved words".

-> 35 keywords.

-> Each keyword has a finite meaning can be used to perform the specific functionality.

-> Library:

 collection of packages

 package is the collection of modules

 module is a python file (.py file)

 which contains data/variables, functions, classes, methods etc.

Ex: Python:

 Math operations

 PI, sqrt, max, ceil etc.

 Random numbers

-> All python keywords were defined in module of python library, which is named as "keyword" in a collection format.

-> The keyword collection identified/named with a name "kwlist".

a = 10

b = 20

c = a + b

print(c)

Q: Write a program/script in python to print all the keywords on the screen.

-> When we want to get/import something from the pre-defined modules of python library, we can follow the below syntax:

 Syntax:

 module-name.member/data

import keyword

result = keyword.kwlist

print(result)

['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break', 'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'for', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'not', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']

-> Python keywords are classified into two categories:

 1) Pre-defined literals/values --> 3

 True, False, None

 2) Pre-defined words --> 32

**Comments:**

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-> Python Documentation

-> Python program:

 1) Executable part --> can provide the output

 2) Non-Executable part --> cannot provide the output

 can use to read only.

 called as "comments/documentation".

-> Suggestable

-> Comments can be allowed to write in anywhere of the program.

-> can write in two ways:

 1) Single line comments -> #

 2) Multi line comments -> ''' '''

# WE ARE DEVELOPING THE SCRIPT FOR DISPLAYING THE 35 PYTHON KEYWORDS

'''

keyword is the module in python library

contains a name "kwlist" for recognising/identifying all keywords in python

before going to display the keywords,

first we need to import keyword module using import keyword

'''

import keyword

'''

kwlist is one of the member from the keyword module.

to access any member from any module, we need to use

'.' operator.

'''

result = keyword.kwlist

# find print keyword list

print(result)

-> keyboard Shortcut for commenting:

 ctrl + /

**Identifiers:**

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-> Identifiers are the names

which we can be used to name any element within the program.

Ex: variables, classes, functions, methods, objects etc.

Identifier Rules/Naming Conventions:

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1) Identifier include:

 Alphabets (Uppercase/lower case)

 Digits (0 to 9)

 Underscore sign (\_)

2) The identifier never begin with digit

Ex: 91abc = 10 ==> Invalid (syntax error)

but the identifier allowed to start with alphabet/underscore

Ex: abc = 10

\_9abc = 100 ==> valid

3) Python keywords never use for identifier definitions.

4) Keywords are case sensitive.

For identifier representation we have different case formats:

 1) Lowercase -> all the letters of the name in lowercase text format ex: python

 2) Uppercase -> All the letters of the name in uppercase text Ex: PYTHON

 3) Capitalize case format -> When an identifier's each word's first letter upper and remaining all are in lower case Ex: PythonProgram

 4) Title case format -> In the entire name only the first letter is upper and remaining all in lowercase. Ex: Pythonprogram

 5) Camel case format -> In the given name, from the second word each word's beginning letter is upper and remaining all in lower Ex: pythonProgrammingLanguage

# 9abc = 212

abc = 121

\_abc = 321

# if = 1234

# all python keywords except three literals, we can define in only lowercase

# True, False, None ==> capitalize case

IF = 1234

print(abc)

print(\_abc)

print(IF)