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Batch A2

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Lab Assignment No. 1

Aim:-

Getting Started with Python:

- Install Python
- Verify Installation
- · Perform simple operations with respect to
 - 1. Keyword 2. Literals 3. Comments 4. DocString
 - 5. Indentation Error 6. "Hello World" 7. Single and Multi-line statement

Theory:-

Steps to install python in windows 10:-

- 1. Step 1 Select Version of Python to Install. ...
- 2. Step 2 Download Python Executable Installer. ...
- 3. Step 3 Run Executable Installer. ...
- 4. Step 4 Verify Python is installed on Windows. ...
- 5. Step 5 Verify Pip was installed.

Verify Installation:-

C:\Users\Divyang>py --version Python 3.8.8

Define Following:-

Keywords: Python keywords are special reserved words that have specific meanings and purposes and can't be used for anything but those specific purposes. These keywords are always available—you'll never have to import them into your code.

Python keywords are different from Python's <u>built-in functions and types</u>. The built-in functions and types are also always available, but they aren't as restrictive as the keywords in their usage.

An example of something you *can't* do with Python keywords is assign something to them. If you try, then you'll get a **SyntaxError**. You won't get a SyntaxError if you try to assign something to a built-in function or type, but it still isn't a good idea.

>>> help("keywords")			
Here is a list of t	the Python keywords.	Enter any keyword t	o get more hel
False	class	from	or
None	continue	global	pass
True	def	if	raise
and	del	import	return
as	elif	in	try
assert	else	is	while
async	except	lambda	with
await	finally	nonlocal	yield
break	for	not	

Literals :- Literals are a notation for representing a fixed value in source code. They can also be defined as raw value or data given in variables or constants.

Numeric literals

```
x = 24

y = 24.3

z = 2+3j

print(x, y, z)
```

Comments: A comment in Python starts with the hash character, #, and extends to the end of the physical line. A hash character within a string value

is not seen as a comment, though. To be precise, a comment can be written in three ways - entirely on its own line, next to a statement of code, and as a multi-line comment block.

DocString:- Python documentation strings (or docstrings) provide a convenient way of associating documentation with Python modules, functions, classes, and methods.

It's specified in source code that is used, like a comment, to document a specific segment of code. Unlike conventional source code comments, the docstring should describe what the function does, not how.

What should a docstring look like?

- The doc string line should begin with a capital letter and end with a period.
- The first line should be a short description.
- If there are more lines in the documentation string, the second line should be blank, visually separating the summary from the rest of the description.
- The following lines should be one or more paragraphs describing the object's calling conventions, its side effects, etc.

Example:-

def my function():

```
'''Demonstrates triple double quotes
    docstrings and does nothing really.'''
    return None
print("Using doc :")
print(my function. doc )
print("Using help:")
help(my function)
Output:-
Using doc :
Demonstrates triple double quotes
   docstrings and does nothing really.
Using help:
Help on function my function in module main :
my_function()
   Demonstrates triple double quotes
   docstrings and does nothing really.
```

Indentation Error:- Python is a procedural language. The indentation error can occur when the spaces or tabs are not placed properly. There will not be an issue if the interpreter does not find any issues with the spaces or tabs. If there is an error due to indentation, it will come in between the execution and can be a show stopper.

Example:-

```
site = 'edu'
if site == 'edu':
print('Logging in to EduCBA!')
else:
print('Please type the URL again.')
print('You are ready to go!')
```

In above there is an indentation error is present.

Conclusion:- Installed python and learned about the keywords, literals, single and multi line comments, indentation error etc.

Lab Assignment 1Code

Lab Assignment No. 1 KeyWords In [1]: help("keywords") Here is a list of the Python keywords. Enter any keyword to get more help. Literals 24 24.3 (2+31) In [4]: s = 'python' # multi-line String m = '''geek for geeks''' print(s) print(t) print(m) Comments in Python In [5]: # Single Line Comments Out[9]: '\nDO NOT FORGET TO PROPERLY\nINDENT THE STARTING OF STRING \nLITERALS WITHIN YOUR CODE!' DocString In [10]: def my_function(): ''Demonstrates triple double quotes docstrings and does nothing really.'' return None print("Using help:") help(my_function) Using __doc__: Demonstrates triple double quotes docstrings and does nothing really. Using help: Help on function my_function in module __main__: my_function() Demonstrates triple double quotes docstrings and does nothing really. Indentation Error File "<ipython-input-11-0ce7dd5839d8>", line 3 print(i) IndentationError: expected an indented block Print "Hello World" In [13]: print("Hello World !") Single And Multi Line Statements This is a trial code Welcome!! This is Jupter Notebook Assign 1