Python session-1

Wednesday, August 17, 2022   1:19 PM

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Python is Object oriented and high level programming language with integrated dynamic semantics
Primarily for web and app development

Guido van Rossum is the creator of the python

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Python is simple and readable like comparing to another language

KEEPING IT SIMPLE

```
class HelloWorld {
    public static void main( String []args ) {
        System.out.println( "Hello World!" );
    }
}
```

```
print("Hello World!")
```

The athematic program of python

```
arithematic.py > ...
1    a = 1
2    b = 2
3    c = a + b
4    d = a - b
5    e = a * b
6    f = a / d
7
8    print (c)
9    print (d)
10   print (e)
11   print (f)


PROBLEMS    OUTPUT    DEBUG CONSOLE

Windows PowerShell
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Try the new cross-platform Powe

PS D:\akshay.kanemoni\OneDrive
kshay.kanemoni/OneDrive - Infos
3
-1
2
-1.0
PS D:\akshay.kanemoni\OneDrive
```

Python operation in the terminal

```
(c) Microsoft Corporation. All rights reserved.

C:\Users\akshay.kanemoni>python
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> print("hello")
hello
>>> quit()

C:\Users\akshay.kanemoni>
```

A variable is a memory location where we can store values. In Python, the data type will be identified according to the data we provide

A variable should start with a letter or an underscore and cannot start with numbers. **There are two ways of assigning values to a variable:**

1 Assigning a Single Value

2 Multiple Assignment

Python follows duck type variable like the compiler
It will automatically gives the variable for it like int , float , string

```
C:\Users\akshay.kanemoni>python
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29)
tel)] on win32
Type "help", "copyright", "credits" or "license" for more
>>> a = "akshay"
>>> b = 1
>>> c =  2.0
>>> d = b +c
>>> e = a + b
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: can only concatenate str (not "int") to str
>>> type(a)
<class 'str'>
>>> type(b)
<class 'int'>
>>> type(c)
<class 'float'>
>>> print(d)
3.0
>>> print(e)
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
NameError: name 'e' is not defined
>>>
```

Assigning variables at a time

```
C:\Users\akshay.kanemoni>python
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1
Type "help", "copyright", "credits" or "license" for more informat
>>> a = b = c= 10
>>> print(b)
10
>>> print(a)
10
>>>
```

We can also assign the values by using the comma operator

```
>>> x,y,z = 30,40,50
>>> print(x)
30
>>> print(y)
40
>>> print(z)
50
>>>
```