```
In [1]:
print("Hello everyone")

Hello everyone

In [2]:
print("hi")
hi
In []:
```

Heading1

Heading2

Heading3

Head6

Today learning python

I am in italic

- Java
- Python
 - v1.0
 - v3.8

clickMe (https://www.google.com)



```
function fancyAlert(arg) {
  if(arg) {
    $.facebox({div:'#foo'})
  }
}
```

Python Keywords

In [3]:

```
import keyword
keyword.kwlist
```

Out[3]:

```
['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']
```

Identifiers

Identifier is a name given to the variable, classes, functions.

Rules

- identifier should start with either alphabets or _(underscore)
- · identifier accepts numbers also
- it can not contain spaces and special symbols

```
In [4]:
var1 = 20
first name = "python"
  File "<ipython-input-4-e90a51bded86>", line 2
    first name = "python"
SyntaxError: invalid syntax
In [5]:
_firstName = "python"
Variables and data types
named memory location to store the value
In [6]:
firstName = 10
print(firstName)
10
In [7]:
type(firstName)
Out[7]:
int
```

Datatypes

- 1. Numbers (int,float,complex)
- 2. Characters (Str)
- 3. True, False (bool)

In [8]:

```
number = 10
print(number, type(number))
number = 10.5
print(number,type(number))
10 <class 'int'>
```

```
10 <class 'int'>
10.5 <class 'float'>
```

Operators in python

special symbols to complete special task

```
Arthematic operators
```

In [14]:

1

print(9%**2**)

```
+ , -, *, / ,// , %, **
```

```
In [9]:
print(10 + 20)
30
In [10]:
print(10.50-9)
1.5
In [11]:
print(10*2)
20
In [12]:
print(9/2)
4.5
2)9(4
8
1
In [13]:
print(9//2)
4
```

```
In [15]:
print(2**3) # 2 power 3
In [ ]:
Assignment Operators
= , += , -=, *= , /= ,//=, %= , **=
In [16]:
number = 10
print(number)
10
In [17]:
print(number) # 10
number += 2 # number = number + 2
print(number)
10
12
In [18]:
print(number) # 12
number -= 4 # number = number- 4
print(number) # 8
12
8
In [19]:
number = 10
print(number) # 10
number *= 5 # number = number * 5
print(number) #50
10
50
In [ ]:
```

Comparision Operators

```
== , < , > , <= , >= , !=
```

```
In [20]:
print(2 == 3)
False
In [21]:
print(2!=3)
True
In [22]:
print(2 < 3)
True
In [23]:
print(2 <= 3)</pre>
True
In [24]:
print(3>=2)
True
In [ ]:
Logical operators
and , or, not
In [25]:
condition1 = 2 < 3 # True</pre>
condition2 = 2 > 3 # False
var = None
print(condition1 and condition2,var)
False None
```

. ..____

```
In [26]:
```

```
print(10,20,30)
```

10 20 30

```
In [27]:
print(condition1 or condition2 )
True
In [28]:
print(not True)
False
In [29]:
print(not False)
True
In [ ]:
Bitwise operators
 • & (bitwise and)
 • | (bitwise or)
 • ~ (bitwise not)
 • ^ (bitwise xor)
 • >> (bitwise right shift)
 << (bitwise left shit)</li>
In [30]:
a = 10
b = 11
print(a & b)
10
In [31]:
print( a | b )
11
In [32]:
print(~ 10)
-11
\sim a a = 10
result = -a -1 = -10-1 =-11
```

```
In [33]:
print(~ 20)
-21
In [34]:
print( a ^ b)
1
In [35]:
print(10 >> 2)
2
In [36]:
print(10 << 2)
40
In [ ]:
special operators

    membership operators (in , not in)

     to check particular member available in group of members.
   2. identity operators (is , is not)
In [37]:
name = "python"
print('h' in name)
True
```

In [38]:

```
print('H' in name)
```

False

In [39]:

```
print('H' not in name) # we get True if 'H' not in names else False
```

True

```
In [ ]:
```

Identity operators

to check both objects are same or not

```
is , not
```

```
In [40]:
```

```
marks_student1 = [10,20,30]
marks_student2 = [10,20,30]
print(marks_student1 == marks_student2)
```

True

```
In [41]:
```

```
print(marks_student1 is marks_student2 )
```

False

```
In [42]:
```

```
marks_student1 = [10,20,30]
marks_student2 = marks_student1
print(marks_student1 is marks_student2)
```

True

```
In [ ]:
```

Data type conversion

to convert one type from another type. int(), float(), str(), bool()

```
In [43]:
```

```
number = 10
print(float(number))
```

10.0

```
In [44]:
number = 123
print(str(number)) # str(123) return after conversion result
number = str(number)
print(type(number))
123
<class 'str'>
In [45]:
number = '123'
print(int(number))
123
In [46]:
name = "123python"
print(int(name))
ValueError
                                           Traceback (most recent call las
<ipython-input-46-30ac0d1d46dc> in <module>
      1 name = "123python"
----> 2 print(int(name))
ValueError: invalid literal for int() with base 10: '123python'
In [47]:
number = 123
print(str(number))
number = '123'
print(type(number))
123
<class 'str'>
```

<u>http://bit.ly/apssdc-python-fdp1 (http://bit.ly/apssdc-python-fdp1)</u>