Operations

★ Numeric Values

★ String Values

Operators and Operands

★ Operators : Computation Symbols

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

★ Operands : Values, variable

```
>> operand1 operator operand2
```

Operators and Operands

```
>> operand1 + operand2
```

```
>> operand1 / operand2
```

```
>> operand1 // operand2
```

```
Python 3.7.3 (default, Apr 24 2019, 15:29:51) [MSC v.1915 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.6.1 -- An enhanced Interactive Python.

Restarting kernel...
```

```
In [1]: 5+6
Out[1]: 11

In [2]: num1=4

In [3]: num2=6

In [4]: result=num1+num2

In [5]: print(num1,num2,result)
4 6 10
```

```
In [6]: print(4+num1)
8
```

```
In [7]: num1=4

In [8]: num2=4.5

In [9]: result=num1+num2

In [10]: print(result,type(result))
8.5 <class 'float'>
```

```
In [12]: print(num1,num2)
4 4.5

In [13]: result=num1/num2

In [14]: print(result)
0.8888888888888888
```

```
In [15]: num1=8

In [16]: num2=4

In [17]: result=num1/num2

In [18]: print(result,type(result))
2.0 <class 'float'>
```

```
In [20]: num1=10

In [21]: num2=3

In [22]: print(num1/num2, num1//num2)
3.3333333333333335 3
```

```
In [23]: num1=10

In [24]: num2=2.5

In [25]: result=num1//num2

In [26]: print(result, type(result))
4.0 <class 'float'>
```

```
In [28]: num1=5

In [29]: num2=3

In [30]: result=num1 % num2

In [31]: print(result)
2
```

```
In [32]: print(5%2)
1
```

```
>> operand1 % operand2
```

```
>> operand1 ** operand2
```

```
In [34]: print(2**3)
8
```

Operator Precedence

PEMDAS

1. **P**arentheses
2. **E**xponentiation
3. **M**ultiplication, **D**ivision
4. **A**ddition, **S**ubtraction

```
In [1]: num1=4

In [2]: num2=6

In [3]: num3=8

In [4]: result=num1+num2-num3

In [5]: print(result)
2
```

```
In [7]: result=4+6*2

In [8]: print(result)
16
```

```
In [9]: result=4*2**3+6

In [10]: print(result)
38
```

```
In [11]: result=3**2+(5-4)

In [12]: print(result)
10
```

Operation on Strings

+ : Concatenation

***** : Repetition

```
In [14]: result='kota'+' surabaya'

In [15]: print(result)
kota surabaya

In [16]: result=2*result

In [17]: print(result)
kota surabayakota surabaya
```