Arithmetic Operations in Python

In [1]:
```
# Integers
```

In [2]:
```
print('Addition: ', 1 + 2)
print('Subtraction: ', 2 - 1)
print('Multiplication: ', 2 * 3)
print ('Division: ', 4 / 2)                          # Division in python gives floa
print('Division: ', 6 / 2)
print('Division: ', 7 / 2)
print('Division without the remainder: ', 7 // 2)   # gives without the floating nu
print('Modulus: ', 3 % 2)                           # Gives the remainder
print ('Division without the remainder: ', 7 // 3)
print('Exponential: ', 3 ** 2)                     # it means 3 * 3
```

```
Addition:  3
Subtraction:  1
Multiplication:  6
Division:  2.0
Division:  3.0
Division:  3.5
Division without the remainder:  3
Modulus:  1
Division without the remainder:  2
Exponential:  9
```

In [3]:
```
# Float Numbers
```

In [4]:
```
print('Floating Number,PI', 3.14)
print('Floating Number, gravity', 9.81)
```

```
Floating Number,PI 3.14
Floating Number, gravity 9.81
```

In [5]:
```
# Complex Numbers
```

In [17]:
```
print('Complex number: ', 1 + 1j)
print('Multiplying complex number: ',(1 + 1j) * (1-1j))
```

```
Complex number:  (1+1j)
Multiplying complex number:  (2+0j)
```

In [19]:
```
a=10+20j
print(a.real)
print(a.imag)
```

```
10.0
20.0
```

In [21]:
```
print(int(a.real))
print(int(a.imag))
```

```
10
20
```

In [23]:
```
# Boolean
```

In [25]:
```
print(6>4)
```

```
True
```

In [27]:
```
print(6<2)
```

```
False
```

In [31]:
```
print('malayalam'=='malayalam')
```

```
True
```

In [33]:
```
print('malayalam'=='tamil')
```

```
False
```

In [35]:
```
print('malayalam'=='Malayalam')
```

```
False
```

In [37]:
```
print(len('malayalam')==(len('malayalam')))
```

```
True
```

In [39]:
```
print(len('malayalam')==(len('tamil')))
```

```
False
```

In [41]:
```
print('true'=='true')
```

```
True
```

In [45]:
```
print('false='=='true')
```

```
False
```

In [47]:
```
print(type('true'))
```

```
<class 'str'>
```

In [55]:
```
print(not True)
```

```
False
```

In [53]:
```
bool(True)
```

Out[53]:
```
True
```

Calculating Areas

In [58]:
```
radius=10
area_of_circle=2.16*radius**2
print('Area of Circle:',area_of_circle)
```

```
Area of Circle: 216.0
```

In [62]:
```
length=40
width=20
area_of_rectangle=length*width
print('Area of Rectangle:',area_of_rectangle)
```

```
Area of Rectangle: 800
```

In [72]:
```
mass=89
gravity=5.61
weight= mass*gravity
print(weight,'N')
```

```
499.29 N
```

In [ ]:

In [ ]: