# Operators

- Aritmatic operations

In [20]:
```
# Integers
```

In [30]:
```
print('Addition - ', 3 + 4)
print('Substraction - ', 5 - 4)
print('Multiplication - ', 6 * 5)
print('Division - ', 6/3)
print('Division - ', 7/2)
print('Division - ', 7//2)
print('Modulous - ', 11 % 4)
print('Exponenttial - ', 2 **4)
```

```
Addition -  7
Substraction -  1
Multiplication -  30
Division -  2.0
Division -  3.5
Division -  3
Modulous -  3
Exponenttial -  16
```

In [32]:
```
#floating
print('Floating Number PT - ', 3.14)
print('Floating number gravity - ', 9.81)
```

```
Floating Number PT 3.14
Floating number gravity 9.81
```

In [41]:
```
#complex number
print('complex number - ', 2+ 4j)
print('Multiple complex number - ', (2+3j) * (1 + 3j))
```

```
complex number -  (2+4j)
Multiple complex number -  (-7+9j)
```

In [52]:
```
a = 3
b = 2

total = a + b
difference = a -b
product = a * b
division = a/ b
floor_division = a//b
remainder = a%b
exponential = a **b

print('total', total)
print('difference', difference)
print('product',product)
print('division', division)
print('floor division', floor_division)
print('reminder', remainder)
print('exponential', exponential)
```

```
total 5
difference 1
product 6
division 1.5
floor division 1
reminder 1
exponential 9
```

In [60]:
```
# calculating area of a circle
radius = 3
areaofcircle = 3.14 * 3 ** 2
print(areaofcircle)
```

```
28.26
```

In [62]:
```
#perimeter of a circle
perimeterofcircle = 2 * 3.14 * radius
print(perimeterofcircle)
```

```
18.84
```

In [68]:
```
# area of a rectangle
length = 34
width = 12

areaofrectangle = length * width
print(areaofrectangle)
```

```
408
```

In [70]:
```
print(3> 2)
print(3< 2)
print(3 == 2)
print(3!=2)
print(3>=2)
print(3<=2)
```

```
True
False
False
True
True
False
```

In [77]:
```
print(len('vinay') == len('kumar'))
print(len('harika') == len('girl'))
```

```
True
False
```

In [87]:
```
print(3 > 2 and 4 > 3)
```

```
True
```

In [89]:
```
print('1 is 1', 1 is 1)
```

```
1 is 1 True
<>:1: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
<>:1: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
C:\Users\Administrator\AppData\Local\Temp\2\ipykernel_10932\1839276060.py:1: SyntaxWarning: "is" with 'int' literal. Did you mean "=="?
  print('1 is 1', 1 is 1)
```

In [93]:
```
import numpy as np
np.nan
```

Out[93]:
```
nan
```

In [97]:
```
print(True * 2)
```

```
2
```

In [99]:
```
dic = {1:'vinay',2 : 'test'}
dic
```

Out[99]:
```
{1: 'vinay', 2: 'test'}
```

In [101…
```
dic[1] ='kumar'
```

In [110…
```
dic
```

Out[110…
```
{1: 'kumar', 2: 'test'}
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]: