In [324]:
```
# Bitwise Rightshift operator
```

```
1. Left side we are gaining the bits
2. right side we are lossing bits
```

In [325]:
```
bin(10)
```

Out[325]: '0b1010'

In [326]:
```
10>>1
```

Out[326]: 5

In [327]:
```
10>>2
```

Out[327]: 2

In [328]:
```
10>>3
```

Out[328]: 1

In [329]:
```
bin(20)
```

Out[329]: '0b10100'

In [330]:
```
20>>4
```

Out[330]: 1

In [331]:
```
# Import Math Module
```

In [332]:
```
import math   # math is module
```

In [333]:
```
x = math.sqrt(25)
x
```

Out[333]: 5.0

In [334]:
```
x1 = math.sqrt(15)
x1
```

Out[334]: 3.872983346207417

In [335]:
```
print(math.floor(2.9))    # floor - minimum or least value
```

```
2
```

In [336]:
```
print(math.ceil(2.9))    # ceil - maximum or highest value
```

```
3
```

In [337]:
```
print(math.floor(2.4))    # floor - minimum or least value
```

```
2
```

In [338]:
```
print(math.ceil(2.4))    # floor - minimum or least value
```

```
3
```

In [339]:
```
print(math.pow(3,2))
```

```
9.0
```

In [340]:
```
print(math.pi)   # these are constant
```

```
3.141592653589793
```

In [341]:
```
print(math.e)   # these are constant
```

```
2.718281828459045
```

In [342]:
```
import math as m
m.sqrt(10)
```

Out[342]:
```
3.1622776601683795
```

In [343]:
```
from math import sqrt, pow  # math has many function if you want to call sp
pow(2,3)
```

Out[343]:
```
8.0
```

In [344]:
```
round(pow(2,3))
```

Out[344]:
```
8
```

In [345]:
```
# Help(math)
```

User input function in Python || command line input

In [348]:
```
x = input()
y = input()
z = x + y
print(z)
```

```
5
9
59
```

In [347]:
```
x1 = input('Enter the 1st number')   #whenevery you works in input function
y1 = input('Enter the 2nd number')
z1 = x1 + y1
print(z1)
```

```
Enter the 1st number6
Enter the 2nd number5
65
```

In [349]:
```
type(x1)
type(y1)
```

Out[349]:
```
str
```

In [350]:
```
x1 = input('Enter the 1st number')
a1 = int(x1)
y1 = input('Enter the 2nd number')
z1 = a1 + b1
print(z1)
```

```
Enter the 1st number5
Enter the 2nd number6
12
```

In [351]:
```
x2 = int(input('Enter the 1st number'))
y2 = int(input('Enter the 2nd number'))
z2 = x2 + y2
z2
```

```
Enter the 1st number5
Enter the 2nd number6
```

Out[351]:
```
11
```

In [354]:
```
ch = input('enter a char: ')
print(ch)
```

```
enter a char: kernel
kernel
```

In [355]:
```
print(ch[0])
```

```
k
```

In [356]:
```
print(ch[1])
```

```
e
```

In [357]:
```
print(ch[2])
```

```
r
```

In [360]:
```
ch = input('Enter a char: ')[0]
print(ch)
```

```
Enter a char: Hello
H
```

In [361]:
```
ch = input('Enter a char: ')[1:3]
print(ch)
```

```
Enter a char: Hello
el
```

In [3]:
```
ch = input('Enter the char: ')
print(ch)
```

```
Enter the char: 5 + 9 - 1
5 + 9 - 1
```

In [ ]:
```
# EVAL function using input
```

In [4]:
```
result = eval(input('Enter an expression: '))
print(result)
```

```
Enter an expression: 5 + 9 -2 * 5
4
```