

import math module

```
In [1]: a=sqrt(36)  # sqrt is inbuilt function  
a
```

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[1], line 1  
----> 1 a=sqrt(36)  
      2 a  
  
NameError: name 'sqrt' is not defined
```

```
In [2]: import math  # math is a module  
a=math.sqrt(36)  
a
```

Out[2]: 6.0

```
In [3]: print(math.sqrt(25))  
print(math.sqrt(64))
```

5.0
8.0

```
In [4]: print(math.pow(4,4))
```

256.0

```
In [5]: print(math.floor(3.9)) # floor-gives small value
```

3

```
In [6]: print(math.ceil(3.9)) # ceil-gives large value
```

4

```
In [7]: print(math.pi)
```

3.141592653589793

```
In [8]: import math as m
```

```
In [9]: print(m.e)
```

2.718281828459045

```
In [10]: print(m.pow(2,2))
```

4.0

```
In [11]: round(pow(2,2))
```

Out[11]: 4

```
In [14]: from math import pow,sqrt,cbrt,remainder # from-for multiple line function declara
print(pow(3,3))
print(sqrt(81))
print(cbrt(2))
print(remainder(2,4))
```

```
27.0
9.0
1.259921049894873
2.0
```

```
In [15]: print(round(pow(3,3)))
print(round(sqrt(81)))
print(round(cbrt(2)))
print(round(remainder(2,4)))
```

```
27
9
1
2
```

```
In [22]: from math import*
```

```
In [21]: print(ceil(4.9))
print(exp(3))
print(log10(2))
print(cos(2))
```

```
5
20.085536923187668
0.3010299956639812
-0.4161468365471424
```

input() function

```
In [25]: x=input() #input with string
y=input()
z=x+y
print(z)
```

```
12
```

```
In [26]: type(x)
```

```
Out[26]: str
```

```
In [28]: type(y)
```

```
Out[28]: str
```

```
In [29]: x1=input('enter 1st value')
y1=input('enter 2nd value')
x1+y1
```

Out[29]: '23'

```
In [30]: x1=int(input('enter 1st value')) # using type casting- strng to int
y1=int(input('enter 2nd value'))
x1+y1
```

Out[30]: 5

```
In [31]: x1=float(input('enter 1st value')) # using type casting- strng to float
y1=float(input('enter 2nd value'))
x1+y1
```

Out[31]: 5.0

```
In [32]: x2=input('enter a char')
x2
```

Out[32]: 'Name'

```
In [34]: print (x2[3])
```

e

```
In [35]: print(x2[0:3])
```

Nam

```
In [38]: x2=input('enter a char') [3] # using indexing
x2
```

Out[38]: 'e'

```
In [40]: x2=input('enter a char') [:3]
x2
```

Out[40]: 'Nam'

```
In [41]: x3=input()
x3
```

Out[41]: '1+2*3-4'

```
In [42]: x3=eval(input()) # using evaluation
x3
```

Out[42]: 3

In []: