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import math function

```
In [1]: x=sqrt(25) #sqrt is build function
        NameError
                                                  Traceback (most recent call last)
        Cell In[1], line 1
        ----> 1 x=sqrt(25)
        NameError: name 'sqrt' is not defined
 In [4]: #help()
 In [6]: import math #math is module
 In [8]: x=math.sqrt(25)
 Out[8]: 5.0
In [10]: x1=math.sqrt(15)
Out[10]: 3.872983346207417
In [12]: print(math.floor(3.87)) #floor- minimum or least value
        3
In [14]: print(math.ceil(3.87)) #ceil-maximum or highest value
        4
In [16]: print(math.pow(3,2))
        9.0
In [18]: print(math.pi) # these are constant
        3.141592653589793
In [20]: print(math.e) #these are constant
        2.718281828459045
In [24]: import math as m
         m.sqrt(10)
Out[24]: 3.1622776601683795
In [28]: from math import sqrt, pow #math has many function if you want to call specific func
         pow(2,3)
```

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```
Out[28]: 8.0
  In [30]: round(pow(2,3))
  Out[30]: 8
  In [36]: from math import *
            pow(2,3)
  Out[36]: 8.0
  In [38]: from math import *
            floor(2.3)
  Out[38]: 2
  In [40]: from math import *
            print(pow(2,3))
            print(floor(2.3))
           8.0
           2
  In [42]: round(pow(2,3))
  Out[42]: 8
https://docs.python.org/3/library/math.html
  In [44]: round(2.5)
  Out[44]: 2
  In [46]: ceil(2.5)
  Out[46]: 3
```

USER INPUT FUNCTION IN PYTHON || Command line input

```
In [49]: x=input()
y=input()
z=x+y
print(z) # console is waiting for user to enter input
# also if you work in idle

56
In [51]: x1=input('Enter the 1st number') # whenever you works in input function it always g
y1=input('Enter the 2nd number') # it won't understand as arithmetic operator
z1=x1+y1
print(z1)
```

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```
In [53]: x1=input('Enter the 1st number') # whenever you works in input function it always g
         a1=int(x1)
         y1=input('Enter the 2nd number') # it won't understand as arithmetic operator
         b1=int(y1)
         z1=a1+b1
         print(z1)
        30
In [57]: x2=int(input('Enter the 1st number'))
         y2=int(input('Enter the 2nd number'))
         z2=x2+y2
         z2 # this code is easier then the above code
Out[57]: 30
```

Lets take input from the user in char format, but we don't have char format in python

```
In [62]: ch=input('enter a char')
         print(ch)
        hello
In [64]: ch=input('enter a char')[0] #entered index Oth index
         print(ch)
In [66]: ch1=input('enter a char')[0:7]
         print(ch1)
        hello
In [68]: ch=input('enter a char')[1:3]
         print(ch)
        el
```

using expressions

EVAL Function Using Input

```
In [70]: ch=input('enter a char')
         print(ch) # if you enter as 2+6-1 we get output as 2+6-1 only
        2+3-3
```

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```
In [72]: ch3=int(input('enter a char'))
    print(ch3)

56
In [74]: ch4=eval(input('enter a expression'))
    print(ch4)

2
In [77]: result=eval(input('enter an expr'))
    print(result)

20
In []:
In []:
```