import math module

In [1]:
```
x = sqrt(25)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[1], line 1
----> 1 x = sqrt(25)

NameError: name 'sqrt' is not defined
```

In [2]:
```
import math
```

In [7]:
```
x = math.sqrt(25)
```

In [8]:
```
x
```

Out[8]: 5.0

In [9]:
```
x1 = math.sqrt(15)
x1
```

Out[9]: 3.872983346207417

In [12]:
```
print(math.floor(3.87))
```

```
3
```

In [13]:
```
print(math.ceil(3.87))
```

```
4
```

In [14]:
```
print(math.pow(3,2))
```

```
9.0
```

In [15]:
```
print(math.pi)
```

```
3.141592653589793
```

In [16]:
```
print(math.e)
```

```
2.718281828459045
```

In [17]:
```
import math as m
m.sqrt(10)
```

Out[17]: 3.1622776601683795

from math import sqrt,pow print(pow(2,3)) print(m.sqrt(10))

In [21]:
```
from math import sqrt,pow,floor,ceil
print(pow(2,3))
print(m.sqrt(10))
print(floor(2.3))
print(ceil(2.3))
```

```
8.0
3.1622776601683795
2
3
```

user input function in python || command line input

- How to get input From user

In [23]:
```
x=input()
x
```

Out[23]: '3'

In [24]:
```
x=input()
y=input()
z=x+y
print(z)
```

```
36
```

In [25]:
```
type(y)
```

Out[25]: str

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

Out[26]: str

In [28]:
```
x1=input('user_name')
y1=input('password')
z1=x1+y1
print(z1)
```

```
nitwelcome
```

In [29]:
```
x1 = input('Enter the 1st number') #whenevery you works in input function it alw
a1 = int(x1)
y1 = input('Enter the 2nd number') # it wont understand as arithmetic operator
b1 = int(y1)
z1 = a1 + b1
print(z1)
```

```
9
```

In [30]:
```
x2 = int(input('Enter the 1st number'))
y2 = int(input('Enter the 2nd number'))
z2 = x2 + y2
z2
```

Out[30]: 9

In [31]:
```
ch = input('enter a char')
print(ch)
```

```
hello
```

In [32]:
```
print(ch[0])
```

```
h
```

In [33]:
```
print(ch[1])
```

```
e
```

In [34]:
```
print(ch[-1])
```

```
o
```

In [36]:
```
ch = input('enter a char')[0]
print(ch)
```

```
h
```

EVAL function using input

In [37]:
```
result = eval(input('enter an expr'))
print(result)
```

```
-1
```

In [ ]:

In [ ]:

In [ ]:

In [ ]: