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 [3]:
```
x=math.sqrt(25)
```

In [4]:
```
x
```

Out[4]: 5.0

In [5]:
```
x1=math.sqrt(15)
x1
```

Out[5]: 3.872983346207417

In [6]:
```
print(math.ceil(3.87))
```

```
4
```

In [7]:
```
print(math.floor(3.87))
```

```
3
```

In [8]:
```
print(math.pow(3,2))
```

```
9.0
```

In [9]:
```
print(math.pi)
```

```
3.141592653589793
```

In [10]:
```
print(math.e)
```

```
2.718281828459045
```

In [ ]:
```
m.sqrt(25)
```

In [11]:
```
import math as m
```

In [12]:
```
m.sqrt(25)
```

Out[12]: 5.0

In [13]:
```
from math import sqrt, pow
print(pow(2,3,))
print(m.sqrt(10))
```

```
8.0
3.1622776601683795
```

In [14]:
```
from math import sqrt,pow,floor,ceil
print(pow(2,3))
print(sqrt(10))
print(floor(2.3))
print(ceil(2.3))
```

```
8.0
3.1622776601683795
2
3
```

User Input Function

In [15]:
```
x=input()
x
```

Out[15]: '5'

In [16]:
```
x=input()
y=input()
z=x+y
print(z)
```

```
45
```

In [17]:
```
type(y)
```

Out[17]: str

In [18]:
```
type(x)
```

Out[18]: str

In [19]:
```
x1=input('enter the first number')
y1=input('enter the second number')
z1=x1+y1
print(z1)
```

```
54
```

In [20]:
```
x1=input('user name: ')
y1=input('password: ')
z1=x1+y1
print(z1)
```

```
simran
```

In [21]:
```
x1=input('enter the 1st number ')
a1=int(x1)
y1=input('enter the 2nd number ')
b1=int(y1)
z1=a1+b1
print('the total sum of a1+b1= ',z1)
```

```
the total sum of a1+b1=  300
```

In [22]:
```
st = input('Enter a String')
print(st)
```

```
Hello
```

In [24]:
```
print(st[0])
```

```
H
```

In [25]:
```
print(st[1])
```

```
e
```

In [26]:
```
print(st[-1])
```

```
o
```

In [27]:
```
st=input('enter the string ')[1]
print(st)
```

```
u
```