import math module

In [1]:
```
x = sqrt(16)
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[1], line 1
----> 1 x = sqrt(16)

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

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

In [3]:
```
x=math.sqrt(16)
```

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

Out[4]: 4.0

In [5]:
```
x1=math.sqrt(12)
x1
```

Out[5]: 3.4641016151377544

In [6]:
```
print(math.floor(3.6))
```

```
3
```

In [7]:
```
print(math.ceil(3.6))
```

```
4
```

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

```
9
```

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

```
3.141592653589793
```

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

```
2.718281828459045
```

In [11]:
```
import math as m
m.sqrt(8)
```

Out[11]: 2.8284271247461903

In [12]:
```
from math import sqrt,pow
pow(5,6)
```

Out[12]: 15625.0

In [13]:
```
round(pow(5,6))
```

Out[13]: 15625

user input function

In [2]:
```
x=input()
y=input()
z=x+y
print(z)
```

```
34
```

In [4]:
```
x1=input('Enter the 1st number')
y1=input('Enter the 2nd number')
z1=x1+y1
print(z1)
```

```
45
```

In [6]:
```
print(type(x1))
print(type(y1))
```

```
<class 'str'>
<class 'str'>
```

In [7]:
```
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)
```

```
16
```

In [9]:
```
x2=int(input('Enter the 1st number'))
y2=int(input('Enter the 2nd number'))
z2=x2+y2
z2
```

Out[9]: 6

In [12]:
```
ch = input('enter a char')
print(ch)
```

```
hello
```

In [13]:
```
print(ch[0])
```

```
h
```

In [14]:
```
print(ch[1])
```

```
e
```

In [15]:
```
print(ch[-1])
```

```
o
```

In [16]:
```
ch = input('enter a char')[0]
print(ch)
```

```
w
```

In [17]:
```
ch = input('enter a char')[1:3]
print(ch)
```

```
or
```

In [18]:
```
ch = input('enter a char')
print(ch)
```

```
2+3-6
```

Eval function using input

In [19]:
```
result=eval(input('enter an expression'))
print(result)
```

```
-1
```

In [ ]:
```

```

In [20]:
```
x=6
y=7
z=x+y
print(z)
```

```
13
```

In [21]:
```
import sys
x=int(sys.argv[1])
y=int(sys.argv[2])
z=x+y
print(z)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[21], line 2
      1 import sys
----> 2 x=int(sys.argv[1])
      3 y=int(sys.argv[2])
      4 z=x+y

ValueError: invalid literal for int() with base 10: '-f'
```

In [22]:
```
pwd
```

Out[22]:
```
'C:\\Users\\DELL'
```

In [23]:
```
cd C:\Users\DELL\Downloads\Mercy Nit FSDS-(GenAi)
```

```
C:\Users\DELL\Downloads\Mercy Nit FSDS-(GenAi)
```

In [24]:
```
import test
```

In [34]:
```
cd C:\Users\DELL\OneDrive\Desktop
```

```
C:\Users\DELL\OneDrive\Desktop
```

In [44]:
```
import ma
```

In [45]:
```
ma.add(8,9)
```

Out[45]:
```
17
```

In [ ]:
```

```