Import Math module

Math module provides mathematical functions like squareroot,power,pi,trigonometry etc.

Math.sqrt()

returns square root of a number.

In [4]:
```
import math #Math is a module
print(math.sqrt(25)) # sqrt is a inbuild function
```

```
5.0
```

In [5]:
```
print(math.sqrt(45))
```

```
6.708203932499369
```

In [6]:
```
print(math.sqrt(15))
```

```
3.872983346207417
```

Math.pow()

Returns a raised to the power b.

In [7]:
```
import math
print(math.pow(2,3))
```

```
8.0
```

In [8]:
```
print(math.pow(4,6))
```

```
4096.0
```

math.floor()

rounds down to the nearest integer.

In [9]:
```
print(math.floor(2.9))
```

```
2
```

In [10]:
```
print(math.floor(4.9))
```

```
4
```

math.ceil()

In [11]:
```
print(math.ceil(2.9))
```

```
3
```

In [12]:
```
print(math.ceil(4.9))
```

```
5
```

In [13]:
```
print(math.pi) # these are constant
```

```
3.141592653589793
```

In [14]:
```
print(math.e) #constant
```

```
2.718281828459045
```

input()

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

```
56
```

In [3]:
```
print(type(x))
print(type(y))
```

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

In [2]:
```
x1=int(input("enter the 1st number"))
y1=int(input("enter the 2nd number"))
z1=x1+y1
print(z1)
```

```
10
```

In [15]:
```
ch = input('enter a char')
print(ch)
```

```
nit
```

In [16]:
```
print(ch[0])
```

```
n
```

In [17]:
```
print(ch[0])
```

```
n
```

In [18]:
```
print(ch[-1])
```

```
t
```

In [19]:
```
ch = input('enter a char')[0]
print(ch)
```

```
h
```

In [20]:
```
ch = input('enter a char')[1:3]
print(ch)
```

```
yd
```

In [9]:
```
x2=input("user name:")
y2=input("password:")
z2=x2+y2
print(z2)
```

```
hello1234
```

In [10]:
```
st=input("enter a string")
print(st)
```

```
hello
```

In [11]:
```
st=input("enter a string")[1]
print(st)
```

```
e
```

In [12]:
```
result=int(input("enter an expr"))
print(result)
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[12], line 1
----> 1 result=int(input("enter an expr"))
      2 print(result)

ValueError: invalid literal for int() with base 10: '5+8+3'
```

eval()

execute a string as python code and returns the result.

In [13]:
```
result=eval(input("enter an expr"))
print(result)
```

```
10
```

In [2]:
```
result=eval(input("enter an expr"))
print(result)
```

```
9
```

In [ ]:
```

```