input

- input is the keyword is used to take the values from user keyboard

In [ ]:
```
city='hyd'   # hard coded
```

In [3]:
```
input
```

Out[3]:
```
<bound method Kernel.raw_input of <ipykernel.ipkernel.IPythonKernel object at 0
x0000026A080F92B0>>
```

- bound method
- function
- both are indicates we are missing the brackets parantheses

In [10]:
```
input()
```

Out[10]:
```
'naresh it'
```

In [ ]:
```
a=10
a
```

In [12]:
```
input()
input()
input()
```

Out[12]:
```
'hyd'
```

In [18]:
```
input('enter th name:')
input('enter age:')
input('enter city:')
```

Out[18]:
```
'hyd'
```

In [35]:
```
name=input('enter th name:')
age=input('enter age:')
city=input('enter city:')
print(f'My name is {name}, my age is {age} and i came from {city}')
```

```
My name is naresh it, my age is 30 and i came from hyd
```

In [22]:
```
n1=100
n2=200
add=n1+n2
print(add)
```

```
300
```

In [32]:
```
n1=input('enter the number1:') # '100'
n2=input('enter the number2:') # '200'
n1+n2  # '100'+'200'
```

Out[32]: '100200'

Note

- If the user takes any value from keyboard by default it is a string data type
- even if we take numbers also it is string data type
- so we need to convert string to either int or float

In [26]:
```
input()
```

Out[26]: '100'

In [28]:
```
'100'+'200'
```

Out[28]: '100200'

In [30]:
```
100+200
```

Out[30]: 300

In [ ]:
```
name='naresh it'
age=20
city='city'
print(f'My name is {name}, my age is {age} and i came from {city}')
```

In [37]:
```
int('100')
```

Out[37]: 100

In [ ]:
```
n1=int(input('enter the number1:'))
n2=int(input('enter the number2:'))
```

In [51]:
```
n1=int(input('enter the number1:'))
n2=int(input('enter the number2:'))n1+n2
```

Out[51]: '100200'

In [53]:
```
'100'
```

Out[53]: '100'

In [55]:
```
int('100')
```

Out[55]: 100

In [57]:
```
n1=int(input('enter the number1:')) # int('100')
n2=int(input('enter the number2:')) # int('200')
n1+n2  # 100+200
```

Out[57]: 300

In [59]:
```
n1=float(input('enter the number1:')) # int('100')
n2=float(input('enter the number2:')) # int('200')
```

```
n1+n2  #
```

Out[59]: 300.0

In [65]:
```
n1=int(input('enter the number1:')) # int('100.5')
n2=int(input('enter the number2:')) # int('200')
n1+n2  # 100+200
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[65], line 2
      1 n1=int(input('enter the number1:')) # int('100.5')
----> 2 n2=int(input('enter the number2:')) # int('200')
      3 n1+n2

ValueError: invalid literal for int() with base 10: '200.5'
```

In [ ]:
```
float('10')  # 10.0
float('10.5') # 10.5
int('10') # 10
int('10.5') # fa
```

eval

In [70]:
```
eval(input())
```

Out[70]: 100.5

In [76]:
```
n1=eval(input('enter the number1:')) # eval('100.5')
n2=eval(input('enter the number2:')) # eval('200')
n1+n2  # 100.5+200
```

Out[76]: 300.5

In [ ]:
```
int('100.5') # error
float('100.5')
```

In [ ]:
```
# Q1) Wap ask the user enter two numbers from keyboard find the multiplication

# Q2) Wap ask the user enter 3 numbers find the average

# Q3) Wap ask the user enter a bill amount and tip value calculate totalbill

# Q4) Wap ask the user find the area of circle
#     formulae: pi*r*r

# Q5) Wap ask the user find the area of right angle traingle
#    formula : 0.5*b*h

# Q6) Wap ask the user eneter amount in dollars
#     convert into rupees 1$=80rs
#      dollars=eval(input('enter the amount in dollars'))

# Q7) Wap ask the user enter weight in kgs and convert into pounds
#     1kg=2.2pounds

# Q8) Wap ask the user enter bill amount and tip percentage
#     calculate the total bill
```

In [78]:
```
n1=eval(input('enter the n1:'))
n2=eval(input('enter the n1:'))
n3=eval(input('enter the n1:'))
avg=(n1+n2+n3)/3
avg1=round(avg,2)
print(f'the average of {n1},{n2} and {n3} is: {avg1}')
```

```
the average of 10,11 and 34 is: 18.33
```

In [80]:
```
bill_amount=eval(input('enter the bill amount:'))
tip_amount=eval(input('tip amount'))
total_amount=bill_amount+tip_amount
print(f'the total amount is:{total_amount}')
```

```
the total amount is:1100
```

In [82]:
```
bill_amount=eval(input('enter the bill amount:'))
tip_per=eval(input('enter the tip perc'))
tip_amount=bill_amount*tip_per/100
total_amount=bill_amount+tip_amount
print(f'the total amount is:{total_amount}')
```

```
the total amount is:2400.0
```

In [84]:
```
pi=3.14
radius=eval(input('enter the radius'))
area_of_circle=pi*radius*radius
print(f'the area of circle is: {area_of_circle}')
```

```
the area of circle is: 7850.0
```

In [86]:
```
base=eval(input('enter the base:'))
height=eval(input('enter the height'))
area_of_traingle=0.5*base*height
print(f'the area_of_traingle is:{area_of_traingle}')
```

```
the area_of_traingle is:100.0
```

In [90]:
```
n1=eval(input('Enter number1 :')) # string 2
n2=eval(input('Enter number2 :')) # int 4
mul=n1*n2  # '2'*4
print(f'Number1 is {n1}. Number2 is {n2}. Multiplication is {mul}')
```

```
Number1 is 10. Number2 is 20. Multiplication is 200
```

In [94]:
```
n1=eval(input('Enter amount in dollars:'))
INR=n1*80
'---$ amount is: --*--=---rs'
print(f'{n1}$ amount is: {n1}*{80}={INR}rs')
```

```
5$ amount is: 5*80=400rs
```

In [ ]:
```
'conversion of 60kgs in pounds is: 60*2.2=132pounds'
```