

```
In [1]: "python"
```

```
Out[1]: 'python'
```

```
In [2]: list1=67
```

```
In [2]: list1=10
```

```
In [4]: list_1=10
```

```
In [5]: list=10
```

```
In [6]: import keyword  
keyword.kwlist
```

```
Out[6]: ['False',  
         'None',  
         'True',  
         'and',  
         'as',  
         'assert',  
         'async',  
         'await',  
         'break',  
         'class',  
         'continue',  
         'def',  
         'del',  
         'elif',  
         'else',  
         'except',  
         'finally',  
         'for',  
         'from',  
         'global',  
         'if',  
         'import',  
         'in',  
         'is',  
         'lambda',  
         'nonlocal',  
         'not',  
         'or',  
         'pass',  
         'raise',  
         'return',  
         'try',  
         'while',  
         'with',  
         'yield']
```

```
In [10]: a=10  
         type(a)
```

Out[10]: int

```
In [9]: d=9.8  
        type(d)
```

Out[9]: float

```
In [11]: string="python"  
         type(string)
```

Out[11]: str

```
In [12]: print(string)
```

python

```
In [ ]: number,numerical=int, float, complex  
        text=str  
        mapping=dict  
        sequence= list,tuple,set,frozenset,range()  
        set=set, frozenset  
        boolean=True and False
```

```
In [13]: c=10+1j
```

```
In [15]: a=10  
         print(a)
```

10

```
In [16]: f=2.4  
         print(f)  
         type(f)
```

2.4

Out[16]: float

```
In [17]: string1="python"  
         string2='python'  
         string3="""python"""  
         string4=''python''
```

```
In [ ]: list1=[1,2,3,4,5,6]  
        tuple=(1,2,3,4,5,6)
```

```
In [18]: list1=[1,2,3,4,5,6]
         type(list1)
```

Out[18]: list

```
In [19]: tuple1=(1,2,3,4,5,6)
         type(tuple1)
```

Out[19]: tuple

```
In [20]: set1={1,2,3,4,5}
         type(set1)
```

Out[20]: set

```
In [21]: a=10
         b=20
         c=30
         a,b,c=10,20,30
```

```
In [22]: a,b,c=10,20
```

```
-----
-
ValueError                                Traceback (most recent call las
t)
Cell In[22], line 1
----> 1 a,b,c=10,20

ValueError: not enough values to unpack (expected 3, got 2)
```

```
In [23]: a,c=10,20,30
```

```
-----
-
ValueError                                Traceback (most recent call las
t)
Cell In[23], line 1
----> 1 a,c=10,20,30

ValueError: too many values to unpack (expected 2)
```

```
In [24]: a=5 ; b=20 ; c=30
```

```
In [25]: print(a)
```

5

```
In [26]: a=10  
print(A)
```

```
-----  
-  
NameError                                Traceback (most recent call las  
t)  
Cell In[26], line 2  
      1 a=10  
----> 2 print(A)  
  
NameError: name 'A' is not defined
```

```
In [ ]: # python
```

```
In [63]: def addition():  
        '''Here i am adding a and b  
        hfjakjehh  
        dhyehf  
        fkur'''  
        a=20  
        b=30  
        add=a+b  
        print(add)  
        '''ahdh'''  
print(addition.__doc__)
```

```
Here i am adding a and b  
hfjakjehh  
dhyehf  
fkur
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

int to float

```
In [28]: a=10  
b=float(a)  
type(b)
```

```
Out[28]: float
```

```
In [29]: a=4.8  
b=int(a)
```

```
In [30]: print(b)
```

4

```
In [31]: a=10  
b=complex(a)  
b
```

```
Out[31]: (10+0j)
```

```
In [32]: b=2.8  
c=complex(b)
```

```
In [33]: c
```

```
Out[33]: (2.8+0j)
```

```
In [34]: s=8+8j  
a=int(s)  
print(a)
```

```
-----  
-  
TypeError                                Traceback (most recent call last)  
t)  
Cell In[34], line 2  
      1 s=8+8j  
----> 2 a=int(s)  
      3 print(a)
```

TypeError: int() argument must be a string, a bytes-like object or a real number, not 'complex'

```
In [35]: a=10  
v=str(a)
```

```
In [37]: print(v)  
type(v)
```

10

```
Out[37]: str
```

```
In [38]: d=2.7  
f=str(d)  
type(f)
```

```
Out[38]: str
```

```
In [ ]: b=20      .... global variable
def a():
    a=10      .... local variable
```

```
In [39]: a=20
b=30
add=a+b
print(add)
```

50

```
In [40]: print("addition of a and b ",add)
```

addition of a and b 50

```
In [41]: print(f" addition of {a} and {b} is {add}")
```

addition of 20 and 30 is 50

```
In [45]: c=40
d=20
add1 = c + d
print(f" additon of {c} and {d} is {add1}")
```

additon of 40 and 20 is 60

```
In [47]: c=40
d=20
add1 = c + d
print(" addition of {} and {} is {} ".format(c,d,add1))
```

addition of 40 and 20 is 60

```
In [48]: c=40
d=20
add1 = c + d
print("addition of %d and %d is %d" %(c,d,add1))
```

addition of 40 and 20 is 60

```
In [49]: c=40
d=2.5
add1 = c + d
print("addition of %d and %d is %d" %(c,d,add1))
```

addition of 40 and 2 is 42

```
In [51]: c=40
d=2.5
add1 = c + d
print("addition of %d and %f is %f" %(c,d,add1))
```

addition of 40 and 2.500000 is 42.500000

```
In [53]: c=40
d=2.5
add1 = c + d
print("addition of %d and %.2f is %.2f" %(c,d,add1))
```

addition of 40 and 2.50 is 42.50

```
In [54]: a1=10
b1=50
add=a1+b1
print(add)
```

60

```
In [55]: print("addition of a and b is ",add)
```

addition of a and b is 60

```
In [56]: print(f" addition of {a1} and {b1} is {add}")
```

addition of 10 and 50 is 60

```
In [57]: print("addition of {} and {} is {}".format(a1,b1,add))
```

addition of 10 and 50 is 60

```
In [58]: print("addition of %d and %d is %d " %(a1,b1,add))
```

addition of 10 and 50 is 60

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]: +
-
*
/
%
//
**
```

```
In [ ]: a=4
        b=5
        v=a+b
        v=a-b
        v=a*b
        v=a/b
        v=a%b
        v=a//b
        v=a**b
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]: ==
        !=
        <=
        >=
        <
        >
```

```
In [ ]: a=5
        a+=5      a=a+5
        a-=5      a=a-5
        a*=5      a=a*5
        a/=5      a=a/5
        a%=5      a=a*5
        a//=5     a=a//5
```

```
In [ ]: in not in
```

```
In [ ]: is is not
```

```
In [ ]:
```