In [1]:

```
a=2
print(a)
ghhjsbzfbk
```

```
2

---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
<ipython-input-1-3c5eb261eebb> in <module>
      1 a=2
      2 print(a)
----> 3 ghhjsbzfbk

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

In [ ]:

```
key words
data types
operators
```

In [2]:

```
import keyword
print(keyword.kwlist)
```

```
['False', 'None', 'True', 'and', 'as', 'assert', 'async', 'await', 'break',
'class', 'continue', 'def', 'del', 'elif', 'else', 'except', 'finally', 'fo
r', 'from', 'global', 'if', 'import', 'in', 'is', 'lambda', 'nonlocal', 'no
t', 'or', 'pass', 'raise', 'return', 'try', 'while', 'with', 'yield']
```

input()

---> it takes input from user

In [10]:

```
a=input()
print(a)
print(type(a))
```

```
10.6
10.6
<class 'str'>
```

In [12]:

```
a=int(input())
print(a)
print(type(a))
```

```
40
40
<class 'int'>
```

In [ ]:

```
int()
float()
str()
```

In [13]:

```
a=float(input())
print(a)
print(type(a))
```

```
40.77
40.77
<class 'float'>
```

In [15]:

```
a=int(input())
b=int(input())
print(a+b)
```

```
100000000000
2000000000000
2100000000000
```

In [8]:

```
a,b=int(input()),int(input())
print(a+b)
```

```
30
40
70
```

In [11]:

```
a=1000000000000000000000000000000000000000000000
print(a)
```

```
1000000000000000000000000000000000000000000000
```

In [16]:

```
a,b,c=10,20,30
print(a,b,c)
```

```
10 20 30
```

In [17]:

```
print(2)
print(123)
```

```
2
123
```

In [18]:

```
a=10,b=20,c=30
print(a,b,c)
```

```
  File "<ipython-input-18-581597ab1e51>", line 1
    a=10,b=20,c=30
     ^
SyntaxError: can't assign to literal
```

In [19]:

```
a=b=c=20
print(a,b,c)
```

```
20 20 20
```

In [22]:

```
a=int(input())
b=str(a)
print(type(b))
```

```
123
<class 'str'>
```

type()

-->>it is indicate the type of data type

In [ ]:

```
 arthimatic operators
1.+,-,*,/,//,%,**
```

In [25]:

```
a,b=2,2
print(type(a))
print(a+b)
print(a-b)
print(a*b)
print(a/b)
print(a//b)
print(a**b)
print(a%b)
```

```
<class 'int'>
4
0
4
1.0
1
4
0
```

In [27]:

```
a=input()
print(type(a))
b=12
print(type(b))
```

```
12
<class 'str'>
<class 'int'>
```

In [1]:

```
#2.relational operators
#<=,>=,==,<,>
a,b=10,20
print(a<=b)
print(a>=b)
print(a<b)
print(a>b)
print(a==b)
```

```
True
False
True
False
False
```

In [1]:

```
# hjhkfgnrlgng
```

In [3]:

```
'''  jgkeghhjlr      '''
```

Out[3]:

```
' \ngfdbg\n'
```

In [5]:

```
a='gk'
b="bnnmn"
print(a,b)
```

```
gk bnnmn
```

In [6]:

```
a=""" jngefng,mndbm,fgnbm,fbngfmnbmfgbnf
geg hnmfgb fm"""
print(a)
```

```
 jngefng,mndbm,fgnbm,fbngfmnbmfgbnf
geg hnmfgb fm
```

3.logical operators and or not

In [14]:

```
a,b=0,20
print(a and b)
print(a or b)
print(not a)
print(not b)
```

```
0
20
True
False
```

In [ ]:

```
4.bitwise operators
```

In [19]:

```
a=4
b=3
print(a&b)
print(a|b)
print(a^b)
print(a<<b)
print(a>>b)
```

```
0
7
7
32
0
```

In [ ]:

```
5.membership operators
```

In [ ]:

```
in ,not in
```

In [21]:

```
l=[1,2,3,4,5]
print( 1 in l)
print(1 not in l)
```

```
True
False
```

In [ ]:

```
6.identity operators
```

In [ ]:

```
is ,is not
```

In [24]:

```
a=30
b=40
print(a is b)
print(a is not b)
```

```
False
True
```

In [ ]:

```
7.assignment operators
```

In [26]:

```
a=10
a+=1
a-=1
a*=1
a%=1
a/=1
a//=1
print(a)
```

```
0.0
```

identation

```
one tab ,four spaces
{
  jkkf
  }
  if a==2:
         print(ok)
```

```
1.if
2.if-else
3.elif
4.nested
```

In [29]:

```
#if
a=int(input())
if a%2==0:
    print('even')
if a%2!=0:
    print('odd')
```

```
35
odd
```

In [30]:

```
#if-else
a=int(input())
if a%2==0:
    print('even')
else:
    print('odd')
```

```
24
even
```

In [34]:

```
#elif
a,b,c=int(input()),int(input()),int(input())
if a>b and a>c:
    print('a is big')
elif b>c:
    print('b is big')
else:
    print('c is big')
```

```
10
30
20
b is big
```

In [35]:

```
#nested
if a%2==0:
    if a%4==0:
        print(a)
    else:
        print('ok')
```

```
ok
```

In [ ]:

```

```