In [1]:
```
#tuple
t=()
t
```

Out[1]: ()

In [3]:
```
t=(1,2,3,'sai')
t
```

Out[3]: (1, 2, 3, 'sai')

In [5]:
```
t.count(2)
```

Out[5]: 1

In [8]:
```
t.index('sai')
```

Out[8]: 3

In [9]:
```
t[0]
```

Out[9]: 1

In [10]:
```
t[:]
```

Out[10]: (1, 2, 3, 'sai')

In [12]:
```
t[0]=9  #immutable
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[12], line 1
----> 1 t[0]=9

TypeError: 'tuple' object does not support item assignment
```

In [13]:
```
t
```

Out[13]: (1, 2, 3, 'sai')

In [18]:
```
t2=[2,3]
t2[0]=10
```

t2

In [19]:
```
bin(25)
```

Out[19]: '0b11001'

In [20]:
```
t2
```

Out[20]: [10, 3]

In [22]:
```
t3=[1,1,2]
t3
```

Out[22]: [1, 1, 2]

t3*2

In [23]:
```
t3*4
```

Out[23]: [1, 1, 2, 1, 1, 2, 1, 1, 2, 1, 1, 2]

In [24]:
```
t3[-1]
```

Out[24]: 2

In [25]:
```
10<<2
```

Out[25]: 40

In [26]:
```
10>>2
```

Out[26]: 2

In [27]:
```
10>>3
```

Out[27]: 1

In [28]:
```
12^13
```

Out[28]: 1

In [30]:
```
~12
```

Out[30]: -13

In [31]:
```
import math
math.pi
```

Out[31]: 3.141592653589793

In [32]:
```
import math as m
m.sqrt(16)
```

Out[32]: 4.0

In [35]:
```
from math import*
sqrt(16)
pow(2,3)
```

Out[35]: 8.0

In [36]:
```
x=int(input("enter x"))
y=int(input("eneter y"))
z=x+y
print(z)
```

9

In [38]:
```
exp=eval(input("enter expression"))
print(exp)
```

```
4
```

In [41]:
```
import math
math.ceil(3.8)
```

Out[41]: 4

In [ ]:
```

```