

## 数据类型

```
1 x = 4
2 print(type(x))
```

!!!note

打印输出结果为: `<class 'int'>`

```
1 `int` 表示为整数类型
```

## 整数运算类比

### 加

```
1 x = 4
2 y = 2
3 z = x + y
4 print(z)
5 print(type(z))
```

结果:

```
1 6
2 <class 'int'>
```

!!!note

整数相加的结果还是为整数

### 减

```
1 x = 4
2 y = 2
3 z = x - y
4 print(z)
5 print(type(z))
```

结果:

```
1 2
2 <class 'int'>
```

!!!note

整数相减的结果还是为整数

## 乘

```
1 x = 4
2 y = 2
3 z = x * y
4 print(z)
5 print(type(z))
```

结果:

```
1 8
2 <class 'int'>
```

!!!note

整数相乘的结果还是为整数

## 除

```
1 x = 4
2 y = 2
3 z = x / y
4 print(z)
5 print(type(z))
```

结果:

```
1 2.0
2 <class 'float'>
```

!!!note

整数相除的结果为小数

## 小数运算类比

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```
1 x = 4.0
2 y = 2.0
3
4 z = x + y
5 print(type(z))
6
7 z = x - y
8 print(type(z))
9
10 z = x * y
11 print(type(z))
12
13 z = x / y
14 print(type(z))
```

结果:

```
1 <class 'float'>
2 <class 'float'>
3 <class 'float'>
4 <class 'float'>
```

!!!note

小数的加减乘除操作结果都为小数

## 数据类型转换

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### 小数转整数

```
1 x = int(3.5)
2 print(x)
3 print(type(x))
```

### 整数转小数

```
1 x = float(3)
2 # x = 3 * 1.0
3 print(x)
4 print(type(x))
```