Python Operator Overloading Methods

1. Arithmetic Operators

Operator	Method	Example
+	add	a + b
-	sub	a - b
*	mul	a * b
/	truediv	a / b
//	floordiv	a // b
%	mod	a % b
**	pow	a ** b

2. Comparison Operators

Operator	Method	Example
==	eq	a == b
!=	ne	a != b
<	lt	a < b
<=	le	a <= b
>	gt	a > b
>=	ge	a >= b

3. Unary Operators

Operator	Method	Example
-	neg	-a
+	pos	+a
~	invert	~a

4. In-place Arithmetic Operators

Operator	Method	Example
+=	iadd	a += b
-=	isub	a -= b
*=	imul	a *= b
/=	itruediv	a /= b
//=	ifloordiv	a //= b
%=	imod	a %= b
**=	ipow	a **= b

5. Type Conversion / Casting

Usage	Method
int(obj)	int
float(obj)	float
str(obj)	str
repr(obj)	repr
bool(obj)	bool

6. Container / Indexing Behavior

Usage	Method	Description
len(obj)	len	Length
obj[i]	getitem	Indexing
obj[i] = x	setitem	Item assignment
del obj[i]	delitem	Delete item
x in obj	contains	Membership check
for x in obj	iter	Iteration