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Arithmetic assignment operators

AI BATCH (9)

Python 3.13.5 (tags/v3.13.5:6cb20a2, Jun 11 2025, 16:15:46) [MSC v.1943 64 bit (AMD64)] on win32

Enter "help" below or click "Help" above for more information.

```
>>>
```

```
>>> y = 20
```

```
>>> y += 15 # same as y = y + 15
```

```
>>> print(y)
```

```
35
```

```
>>> y = 50
```

```
>>> y -= 25 # same as y = y - 25
```

```
>>> print(y)
```

```
25
```

```
>>> ye = 2
```

```
>>> ye *= 5 # same as ye = ye * 5
```

```
>>> print(ye)
```

```
10
```

```
>>> yc = 5
```

```
>>> yc /= 2 # same as yc = yc / 2
```

```
>>> print(yc)
```

```
2.5
```

```
>>> yd = 15
```

```
>>> yd %= 20 # same as yd = yd % 20
```

```
>>> print(yd)
```

```
15
```

```
>>> ya = 50
```

```
>>> ya **= 3 # same as ya = ya ** 3
```

```
>>> print(ya)
```

```
125000
```

```
>>> xy = 2
```

```
>>> xy //= 4 # same as xy = xy // 4
```

```
>>> print(xy)
```

```
0
```

Comparison Operators

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```
>>> x = 4
>>> y = 5
>>> x == y
False
>>> a = 10
>>> y = 20
>>> a != y
True
>>> c = 50
>>> d = 10
>>> c > d
True
>>> e = 100
>>> f = 75
>>> e < f
False
>>> r = 35
>>> e = 45
>>> e >= r
True
>>> h = "zahoor"
>>> k = "ali"
>>> h <= k
False
```

Logical Operators

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```
>>>
>>> x = 3
>>> y = 4
>>> print(x < 3 and y > 4)
False
>>> a = 9
>>> b = 11
>>> print(a > 9 or b < 11)
False
>>> d = 20
>>> print(not(d > 20))
... print(not(d < 20))
...
SyntaxError: '(' was never closed
>>> print(d > 20 )
...
False
```

Membership Operators

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Enter "help" below or click "Help" above for more information.

```
>>> A = 25 , 20 , 35 , 40
>>> print("20 is in the list")
20 is in the list
>>> print("50 is not the list")
50 is not the list
>>>
>>> B = 100 , 2 , 5
>>> print("50 is not the list")
50 is not the list
>>> print("100 is in the list")
100 is in the list
```

Identity Operators

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Enter "help" below or click "Help" above for more information.

```
>>> A = [1 , 2 , 5]
```

```
>>> B = "A"
```

```
>>> S = [1 , 2 , 5]
```

```
>>> print(id(A))
```

```
2250847816256
```

```
>>> print(id(B))
```

```
140716686129632
```

```
>>> print(id(S))
```

```
2250803404992
```

```
>>>
```

```
>>> A is S
```

```
False
```

```
>>> B is A
```

```
False
```

```
>>> B is A
```

```
False
```

```
>>> B == A
```

```
False
```